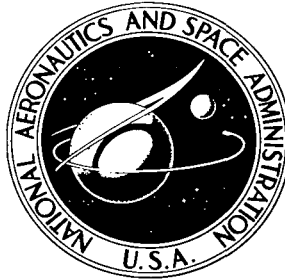


NASA TECHNICAL NOTE



NASA TN D-5549

C.1

NASA TN D-5549



LOAN COPY: RETURN TO  
AFWL (WLOL)  
KIRTLAND AFB, N MEX

# TABLES OF COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY APPLICATIONS

*by Darl D. Bien*

*Lewis Research Center*

*Cleveland, Ohio*

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION • WASHINGTON, D. C. • NOVEMBER 1969



0132485

1. Report No. NASA TN D-5549	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle TABLES OF COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY APPLICATIONS		5. Report Date November 1969	6. Performing Organization Code
7. Author(s) Darl D. Bien	9. Performing Organization Name and Address Lewis Research Center National Aeronautics and Space Administration Cleveland, Ohio 44135		8. Performing Organization Report No. E-4988
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, D.C. 20546	10. Work Unit No. 120-27		11. Contract or Grant No.
15. Supplementary Notes	13. Type of Report and Period Covered Technical Note		14. Sponsoring Agency Code
16. Abstract Extensive tables of component reliabilities required for a specified system reliability are presented for systems whose reliability is expressible by the binomial distribution. These six-place tables cover a range of system reliabilities from 0.80 to 0.9999 for systems of 2 to 1000 components. The short and efficient computer program used to generate the binomial reliability parameter is included together with instructions for its use. Applications of these same techniques to sampling plans and confidence intervals are also given.			
17. Key Words (Suggested by Author(s)) Component redundancy Binomial parameter determination Binomial percentiles Component reliability		18. Distribution Statement Unclassified - unlimited	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 105	22. Price* \$3.00

\*For sale by the Clearinghouse for Federal Scientific and Technical Information  
Springfield, Virginia 22151



# CONTENTS

	Page
SUMMARY . . . . .	1
INTRODUCTION . . . . .	1
SYMBOLS . . . . .	2
THEORY. . . . .	3
r or More Successes . . . . .	3
c or Fewer Successes . . . . .	4
METHOD OF SOLUTION . . . . .	5
General . . . . .	5
Newton-Raphson Method . . . . .	6
APPLICATION . . . . .	8
CONCLUDING REMARKS . . . . .	10
APPENDIXES	
A - FORTRAN PROGRAM . . . . .	11
B - ADDITIONAL APPLICATIONS. . . . .	20
REFERENCES . . . . .	24
TABLE I. - COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY . . . . .	26

# TABLES OF COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY APPLICATIONS

by Darl D. Bien

Lewis Research Center

## SUMMARY

Tables of component reliabilities required for a specified system reliability are presented for systems whose reliability is expressible by the binomial distribution. The tables have six-place accuracy and cover system reliabilities of 0.80, 0.90, 0.95, 0.975, 0.99, 0.995, 0.999, 0.9995, and 0.9999. Systems consisting of the following numbers of components are included: 2, 3, 4, . . . , 50; 52, 54, 56, . . . , 100; 110, 120, 130, . . . , 500; 525, 550, 575, . . . , 1000.

The short and efficient FORTRAN IV language computer program utilizing the Newton-Raphson iterative procedure for binomial parameter determination is presented together with instructions for its use. Examples of its usefulness in the areas of sampling plans and confidence intervals are also given.

## INTRODUCTION

One way to achieve high reliability for complex systems is to use redundancy. A system of  $n$  components which functions only if at least  $r$  components function is called an  $r$ -out-of- $n$  system (ref. 1). If all components have the same reliability  $p$  and if component failures are independent, the reliability of an  $r$ -out-of- $n$  system is the probability that at least  $r$  of the  $n$  components perform successfully. This is the cumulative binomial probability:

$$\sum_{x=r}^n \frac{n!}{x! (n-x)!} p^x (1-p)^{n-x}$$

Frequently, in system design work, system reliability is specified. The component designer in turn needs to determine the component reliability  $p$  which is compatible

with the system reliability; that is, he needs to solve for  $p$  as a function of the number of components  $n$ , the minimum number required to operate successfully  $r$ , and the system reliability. This is referred to as determining the parameter of the cumulative binomial distribution. The determination of the cumulative binomial parameter is of interest in such other areas as sampling plans and confidence interval calculations.

The determination of  $p$  can be approximated by interpolation in existing tables of the cumulative binomial distribution (such as refs. 2 to 7), tables of the incomplete beta function (such as refs. 8 and 9), or tables of the F-distribution (such as refs. 9 and 10). Since the cumulative binomial distribution can be approximated by the normal or Poisson distributions under certain conditions on  $n$  and  $p$ , tables such as references 9 and 11 can be used for an approximate determination of  $p$ . References 12 and 13 contain charts of the cumulative binomial distribution from which values of the parameter  $p$  can be read with limited accuracy. References 14 and 15 contain tables of  $p$  but they cover only a small range of variables.

The primary purpose of this report is to present extensive tables of the parameter  $p$  of the cumulative binomial distribution covering a range of variables of particular interest in reliability redundancy applications. The computer program used to determine  $p$  is also presented in order that the user may generate tables of particular interest and because of the program's versatility in a variety of other problems. The program deck can be obtained from COSMIC Computer Center, University of Georgia, Athens, Georgia 30601. Examples of program usage are shown for confidence interval and sampling plan applications in addition to the redundancy application.

## SYMBOLS

$c$	upper limit on binomial summation; acceptance number in single binomial sampling plans
$n$	number of components in system; sample size
$P_a$	probability of lot acceptance in single binomial sampling plans
$\Pr(X = x   n, p)$	probability of $x$ successes in a system or sample of size $n$ , where individual component reliability or item success probability is $p$
$p$	component reliability; item success probability; sample fraction defective in single binomial sampling plans
$r$	lower limit on binomial summation; minimum number of successes allowed
$X$	random variable

x value that X can take

1 -  $\alpha$  confidence coefficient

Subscripts:

j iteration number

l lower

u upper

0 initial value

## THEORY

The binomial distribution is a suitable model for determining the reliability of an r-out-of-n system. If all components are assumed to have the same reliability p and component failures to be independent events, the probability of exactly x successes among the n components is given by

$$\Pr(X = x | n, p) = \binom{n}{x} p^x (1 - p)^{n-x} \quad (1)$$

The factor  $\binom{n}{x}$  represents the number of combinations of n things taken x at a time; that is,

$$\binom{n}{x} = \frac{n!}{x! (n - x)!} \quad (2)$$

### r or More Successes

The cumulative binomial probability of r or more successes among the n components is found by summation of x from r to n in equation (1); that is,

$$\Pr(X \geq r | n, p) = \sum_{x=r}^n \binom{n}{x} p^x (1 - p)^{n-x} \quad (3)$$

This equation for the reliability of an r-out-of-n system reduces to the reliability of a series system when r = n and a parallel system when r = 1. Since the summation of equation (1) from x = 0 to x = n must be 1, equation (3) can be rewritten as

$$\Pr(X \geq r | n, p) = 1 - \sum_{x=0}^{r-1} \binom{n}{x} p^x (1-p)^{n-x} \quad (4)$$

The summations in equations (3) and (4) can be rewritten in terms of cumulative binomial distributions with parameters  $n$  and  $1-p$  to give, respectively,

$$\Pr(X \geq r | n, p) = \sum_{x=0}^{n-r} \binom{n}{x} (1-p)^x p^{n-x} \quad (5)$$

and

$$\Pr(X \geq r | n, p) = 1 - \sum_{x=n-r+1}^n \binom{n}{x} (1-p)^x p^{n-x} \quad (6)$$

Since equations (3) to (6) are equivalent, the preferred choice among them for computer use is the equation containing the fewest terms in the expansion of the summation. The use of this preferred equation results in minimizing the computation time as well as the accumulated computer roundoff error. The summations in equations (3) and (5) each contain  $n-r+1$  terms, while the summations in equations (4) and (6) consist of  $r$  terms each. Therefore, equations (3) to (6) contain the same number of terms when  $r = (n+1)/2$ . For  $r$  values greater than or equal to  $(n+1)/2$ , equations (3) and (5) are preferred; for values of  $r$  less than  $(n+1)/2$ , equations (4) and (6) are preferred.

### c or Fewer Successes

The cumulative binomial probability of  $c$  or fewer successes among the  $n$  components is found by summation of  $x$  from 0 to  $c$  in equation (1); that is,

$$\Pr(X \leq c | n, p) = \sum_{x=0}^c \binom{n}{x} p^x (1-p)^{n-x} \quad (7)$$

Since the summation of equation (1) from  $x=0$  to  $x=n$  must be 1, equation (7) can be rewritten as



$$\Pr(X \leq c | n, p) = 1 - \sum_{x=c+1}^n \binom{n}{x} p^x (1-p)^{n-x} \quad (8)$$

The summations in equations (7) and (8) can also be rewritten in terms of cumulative binomial distributions with parameters  $n$  and  $1-p$  to give, respectively,

$$\Pr(X \leq c | n, p) = \sum_{x=n-c}^n \binom{n}{x} (1-p)^x p^{n-x} \quad (9)$$

and

$$\Pr(X \leq c | n, p) = 1 - \sum_{x=0}^{n-c-1} \binom{n}{x} (1-p)^x p^{n-x} \quad (10)$$

The summations in equations (7) and (9) each contain  $c+1$  terms, while the summations in equations (8) and (10) consist of  $n-c$  terms each. Therefore, equations (7) to (10) contain the same number of terms when  $c = (n-1)/2$ . For  $c$  values less than or equal to  $(n-1)/2$ , equations (7) and (9) are preferred; for values of  $c$  greater than  $(n-1)/2$ , equations (8) and (10) are preferred.

## METHOD OF SOLUTION

### General

In the development of a computer program, a general formulation for the binomial summation is desired; that is, rather than programming all eight of the equations (3) to (10), it is desired to program one general form from which either  $\Pr(X \geq r | n, p)$  or  $\Pr(X \leq c | n, p)$  can be computed.

The general form selected is that of equation (3). It is noted that equations (6), (8), and (9) fit this same form; that is, the summations have an upper limit of  $n$ . Thus, equations (4), (5), (7), and (10) are eliminated from further consideration because their upper limits are not  $n$ . Equations (3) and (6) have as unique variables  $r$  and  $\Pr(X \geq r | n, p)$ , whereas equations (8) and (9) involve the variables  $c$  and  $\Pr(X \leq c | n, p)$ .

Equation (3) is used to restate the problem of determining the parameter of the cumulative binomial distribution: for given values of  $n$ ,  $r$ , and  $\Pr(X \geq r | n, p)$ , deter-

mine the value of  $p$ . The solution to this problem is obtained by an iterative procedure beginning with an initial guess for  $p$  for use in the summation of equation (3). Unless there is equality between the specified quantity  $\Pr(X \geq r | n, p)$  and the numerical value of the sum, a new estimate for  $p$  is selected. This procedure is repeated until the parameter  $p$  is ascertained with desired accuracy.

### Newton-Raphson Method

The Newton-Raphson method is a well-known numerical technique for finding the roots of equations. The Newton-Raphson method is chosen here because it provides rapid convergence and because the required derivative of the binomial summation is simple. The  $(j + 1)^{\text{th}}$  estimate for the root  $p$  of equation (3) can be obtained from the  $j^{\text{th}}$  estimate for  $p$  as follows (ref. 16):

$$p_{j+1} = p_j - \frac{F(p_j)}{\frac{\partial F(p_j)}{\partial p_j}} \quad (11)$$

where

$$F(p_j) = \sum_{x=r}^n \binom{n}{x} p_j^x (1 - p_j)^{n-x} - \Pr(X \geq r | n, p) \quad (12)$$

and

$$\frac{\partial F(p_j)}{\partial p_j} = r \binom{n}{r} p_j^{r-1} (1 - p_j)^{n-r} \quad (13)$$

In order to assure convergence with the Newton-Raphson method, a judicious initial guess for  $p$  is required. Since the binomial distribution is monotonic, convergence is assured by selecting  $p_0$  at the point of maximum slope on a curve of cumulative probability as a function of  $p$ . This point is determined by setting to zero the second partial derivative of  $F(p_j)$  with respect to  $p_j$ . The second partial derivative is

$$\frac{\partial^2 F(p_j)}{\partial p_j^2} = r \binom{n}{r} p_j^{r-2} (1-p_j)^{n-r-1} [(r-1) - p_j(n-1)] \quad (14)$$

The value of  $p_j$  for which equation (14) becomes zero is

$$p_0 = \frac{r-1}{n-1} \quad (15)$$

A relation useful in obtaining successive terms of the binomial summation is

$$\Pr(X = x + 1 | n, p) = \frac{(n-x)}{(x+1)} \frac{p}{(1-p)} \Pr(X = x | n, p) \quad (16)$$

This relation is especially useful in computer computation of the sum.

Figure 1 illustrates the Newton-Raphson method of solution for the case

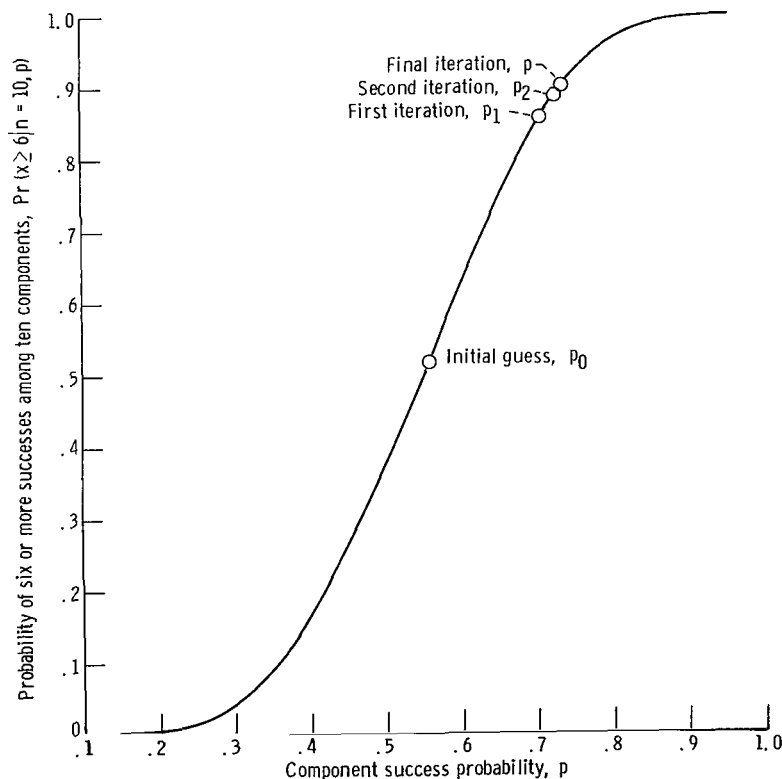


Figure 1. - Component success probability and cumulative probability for six or more successes among ten components.

$\Pr(X \geq 6 | n = 10, p) = 0.90$ . The rapidity of convergence by this method is such that six-place accuracy in  $p$  can usually be obtained in fewer than six iterations. The FORTRAN program is presented in appendix A.

## APPLICATION

The application which motivated this study is in determining the required component reliability in an  $r$ -out-of- $n$  system. Two other applications, sampling plans and confidence intervals, are given in appendix B.

An  $r$ -out-of- $n$  system is one which functions only if at least  $r$  components function in a system of  $n$  components. Frequently, in system design work, the designer has a specified system reliability that must be achieved. Physical requirements of the system determine the number of components  $r$  that must function successfully. Within limitations such as weight, cost, and size, the designer can choose the number of redundant components  $n - r$ . The problem is to determine the component reliability  $p$  that will satisfy the required system reliability for given  $n$  and  $r$ .

An example of such a problem is found in the design of vapor-chamber radiators for space application. Such radiators consist of several hundred ( $n$ ) independent chambers, of which some number ( $r$ ) must successfully function in order to reject the waste heat from a powerplant (ref. 17). Typically, the overall radiator reliability is specified.

The surfaces of the vapor chambers are subject to bombardment by meteoroids. A

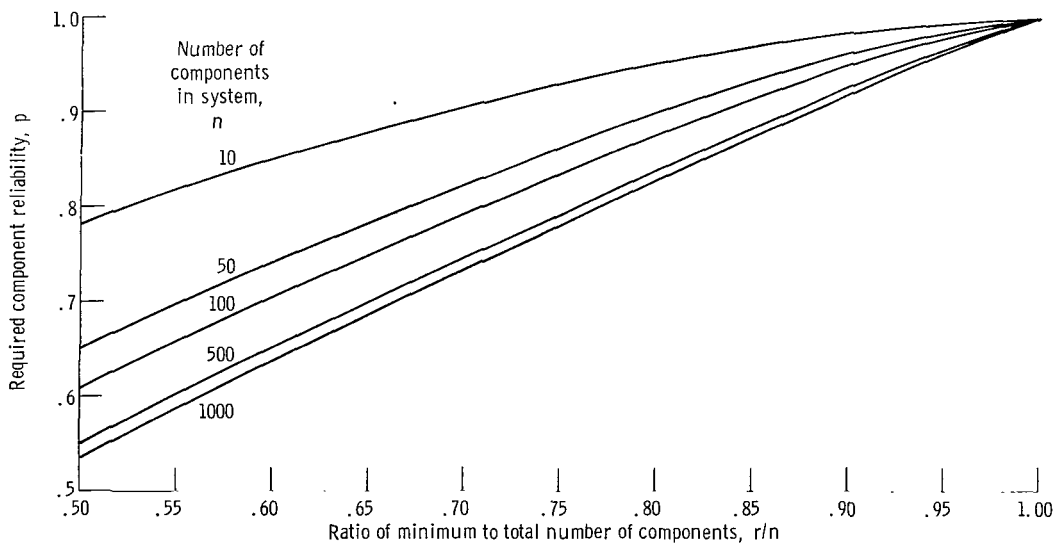


Figure 2. - Effect of number of components on required component reliability for system reliability of 0.99

$$\left( 0.99 = \sum_{x=r}^n \binom{n}{x} p^x (1-p)^{n-x} \right) \text{ and a range of redundancy levels.}$$

puncture of the chamber releases its vapor and destroys its usefulness. The thickness of the chamber walls can be expressed as a function of the required chamber reliability (ref. 17). Thus, to design the vapor-chamber radiator, it is necessary to determine  $p$ , the individual vapor chamber reliability. By cumulative binomial parameter determination,  $p$  can be determined as a function of the number of vapor chambers  $n$ , the minimum number required for mission success  $r$ , and the overall radiator reliability  $\Pr(X \geq r | n, p)$ .

The following table lists the component reliability for a system success probability of 0.99 for several  $n$  and  $r$  values. The same information is presented in figure 2 where it is shown that for fixed  $r/n$ , the larger values of  $n$  result in smaller required component reliabilities.

CUM PRDB	N	R	C	P
0.990000	10	6		0.849557
0.990000	10	7		0.906786
0.990000	10	8		0.952493
0.990000	10	9		0.984462
0.990000	10	10		0.998995
0.990000	50	30		0.740064
0.990000	50	35		0.823491
0.990000	50	40		0.899068
0.990000	50	45		0.963083
0.990000	50	50		0.999799
0.990000	100	55		0.657288
0.990000	100	60		0.703765
0.990000	100	65		0.749050
0.990000	100	70		0.793051
0.990000	100	75		0.835610
0.990000	100	80		0.876473
0.990000	100	85		0.915205
0.990000	100	90		0.950980
0.990000	100	95		0.981853
0.990000	100	100		0.999899
0.990000	500	275		0.600219
0.990000	500	300		0.649052
0.990000	500	325		0.697335
0.990000	500	350		0.745022
0.990000	500	375		0.792036
0.990000	500	400		0.838251
0.990000	500	425		0.883452
0.990000	500	450		0.927211
0.990000	500	475		0.968455
0.990000	500	500		0.999980
0.990000	1000	550		0.585849
0.990000	1000	600		0.635099
0.990000	1000	650		0.683959
0.990000	1000	700		0.732395
0.990000	1000	750		0.780353
0.990000	1000	800		0.827742
0.990000	1000	850		0.874409
0.990000	1000	900		0.920045
0.990000	1000	950		0.963873
0.990000	1000	1000		0.999990

## CONCLUDING REMARKS

The system designer who occasionally uses the binomial distribution in reliability applications will find that the extensive tables of this report provide him with six-place accuracy and a saving of time. The more frequent user will find that the computer program, which is short and efficient, can be used to generate tables more nearly suited to his use or to incorporate the routine into a larger system program.

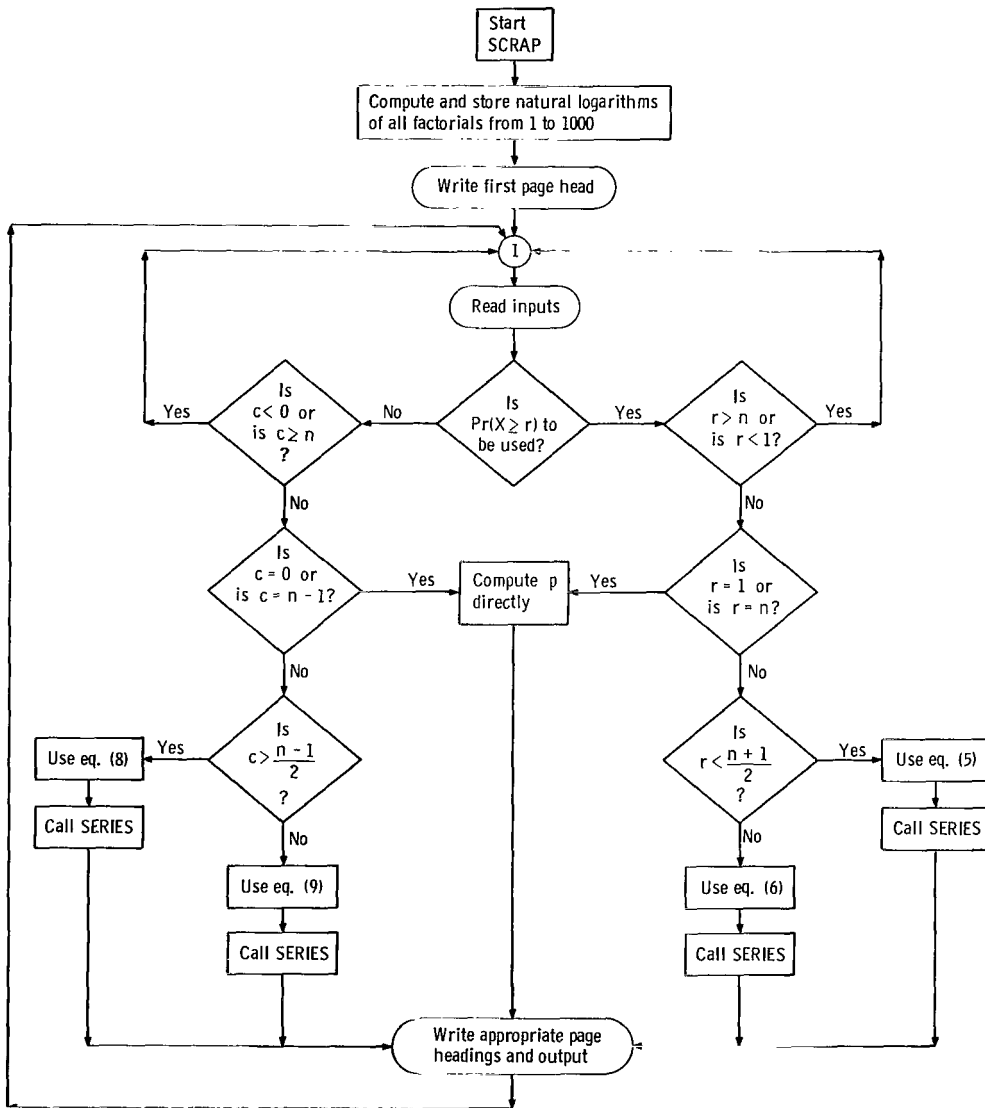
Lewis Research Center,  
National Aeronautics and Space Administration,  
Cleveland, Ohio, August 22, 1969,  
120-27.

# APPENDIX A

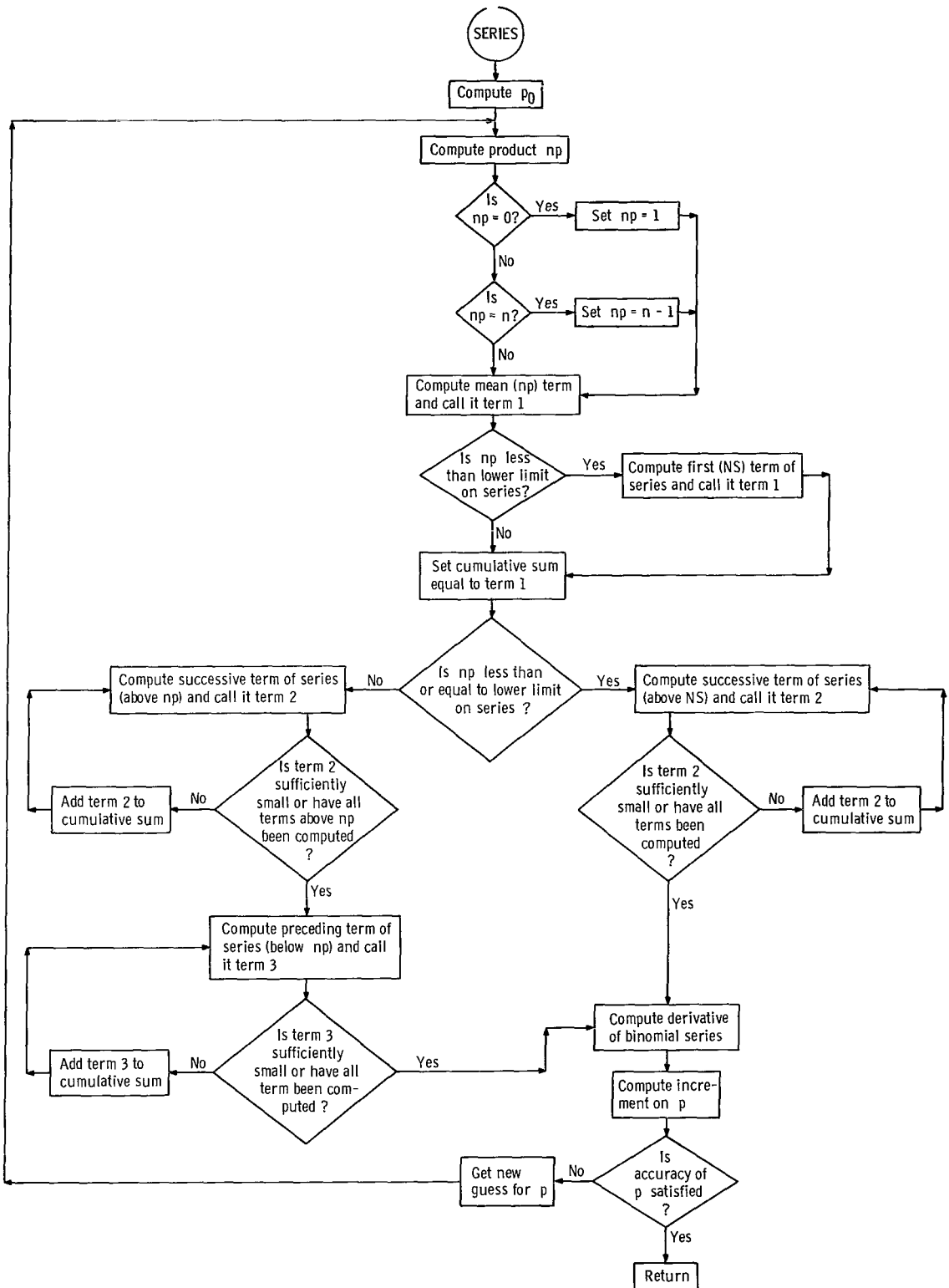
## FORTRAN PROGRAM

A FORTRAN IV language computer program, written for the Lewis 7094 computer and utilizing the Newton-Raphson method, is presented at the end of this appendix. The flow diagram is shown in figure 3.

The program is written in two parts. The calling program, called SCRAP for



(a) Calling program, SCRAP.  
Figure 3. - Computer flow diagram.



(b) Subroutine SERIES.

Figure 3. - Concluded.



Series Computation of Reliability and Probability, controls the input and output and provides for selection of the preferred equation for the most efficient computation of the binomial sum. The subroutine SERIES is used to compute the binomial sum and to determine to the desired accuracy the numerical value of the parameter  $p$ .

## Calling Program, SCRAP

As shown in figure 3(a) the first function performed by SCRAP is the computation and storage of the natural logarithms of all factorials from 1 to 1000. These are needed because each term of the binomial summation contains factorials (see eqs. (1) and (2)). The logarithms are stored in double precision to maintain the desired accuracy after summing the possibly large number of terms in the binomial summation.

The program has five input variables, only four of which are used in any one problem. To specify whether the cumulative probability under consideration is  $\Pr(X \geq r | n, p)$  or  $\Pr(X \leq c | n, p)$ , an input called TAIL is used. Any positive integer for TAIL indicates  $\Pr(X \geq r | n, p)$ , whereas any negative integer or zero indicates  $\Pr(X \leq c | n, p)$ . The input N (for  $n$ ) can be any integer from 1 to 1000. The input R (for  $r$ ) can take any integer value from 1 to  $n$ . The input C (for  $c$ ) can take any integer value from zero to  $n - 1$ . The remaining input CUMSUM is the specified cumulative probability; it is either  $\Pr(X \geq r | n, p)$  or  $\Pr(X \leq c | n, p)$ , depending on whether TAIL is positive or nonpositive, respectively. All inputs are programmed in NAMELIST format. A sample set of inputs is shown in the following table:

Card	column	1	2
Blank	\$	INPUT CUMSUM = 0.025,	TAIL = 1, N = 50, R = 20\$
Blank	\$	INPUT TAIL = 0,	C = 20\$
Blank	\$	INPUT CUMSUM = 0.05,	TAIL = 1\$
Blank	\$	INPUT TAIL = 0\$	
Blank	\$	INPUT CUMSUM = 0.025,	TAIL = 1, R = 25\$

## Decision Functions

Figure 3(a) illustrates the decision functions performed by SCRAP. When the binomial summation consists of a single term, the parameter  $p$  is found by direct computation. When the summation contains more than one term, the Newton-Raphson iterative procedure is used to determine  $p$ . The program uses the form of the cumulative

binomial requiring computation of the fewer terms. Subroutine *SERIES* is then called to perform the binomial summation and determine the value of  $p$ .

A sample set of output obtained from the preceding sample input is as follows:

CUMULATIVE PROBABILITY =	$\sum_{X=0}^C \binom{N}{X} P^X (1-P)^{N-X}$	OR	$\sum_{X=R}^N \binom{N}{X} P^X (1-P)^{N-X}$
CUM PROB	N	R	P
0.025000	50	20	0.264078
0.025000	50	20	0.548206
0.050000	50	20	0.283131
0.050000	50	20	0.526120
0.025000	50	25	0.355273

The first page of output contains as a heading both equations (3) and (7). Of the five column headings, N, R, and C are identical to the inputs with the same names. The CUM PROB column is simply the CUMSUM input, and P is the cumulative binomial parameter  $p$ .

### Subroutine *SERIES*

Subroutine *SERIES* performs the binomial summation, determines the parameter  $p$  to the desired accuracy, and delivers the solution to the calling program *SCRAP*. The flow diagram of figure 3(b) shows the steps in this procedure.

It is desirable to begin computation of the sum at the mode or largest term of the distribution. Since the binomial distribution is unimodal, successive terms of the summation on both sides of the mode need be computed only so long as the successive term adds significance to the cumulative sum.

Because the mode of the binomial distribution is more difficult to determine than the mean and since the mode is close to the mean, the mean term is chosen to initiate computation of the sum.

The mean of the binomial distribution is formed by the product  $np_j$ . If  $np_j$ , when rounded to the nearer integer value, is either zero or  $n$ , it is set equal to 1 or  $n - 1$ , respectively, to avoid definition and use of zero factorial. The probability of  $np_j$  (rounded to an integer) successes among  $n$  components given by equation (1) with  $x = np_j$  is computed and stored as term 1.

If the mean  $np_j$  term is a term not included in the range of the summation, the computation begins instead with the first term of the summation designated by NS

in the computer program. With the use of equation (16), successive terms of the summation are computed until either (1) the terms become insignificantly small, less than  $10^{-10}$ , or (2) all terms of the summation are included. Each term of the summation is added to the previous cumulative sum, called CGUESS in the program.

The increment on  $p$  as specified by the Newton-Raphson method is  $|p_{j+1} - p_j|$  (eq. (11)). If this increment is less than  $5 \times 10^{-7}$ , the solution  $p$  is delivered to the calling program, SCRAP. If the accuracy of  $p$  is not satisfied, a new guess for  $p$  is used and the process repeated from the beginning. The error in  $p$  as obtained from this program is thus less than  $5 \times 10^{-7}$ ; that is, all six places are usable.

### Miscellaneous Details

The running time on the Lewis 7094 computer is less than 0.001 minute for each case. With format modifications, the program was checked out with  $n$  values as large as 10 000. The calling program SCRAP and subroutine SERIES require a total storage capacity of less than 2900 36-bit words on the 7094 computer. Of the storage, 2000 words are used just to store the logarithms of the factorials in double precision. For repeated usage of the program, computer time and storage could be saved by permanently storing the logarithms of the factorials on disks.

A copy of the FORTRAN program deck can be obtained from COSMIC Computer Center, University of Georgia, Athens, Georgia 30601.

### Program Listing

#### SCRAP

```

C ----SCRAP--SERIES COMPUTATION OF RELIABILITY AND PROBABILITY--IS A PROGRAM
C ----WHICH USES THE NEWTON-RAPHSON TECHNIQUE TO DETERMINE THE PARAMETER P OF
C ----THE BINOMIAL SERIES. THE INPUTS ARE C (OR R), N, TAIL, AND CUMULATIVE
C ----PROBABILITY AND THE OUTPUT IS P IN THE FOLLOWING EQUATIONS.
C
C ----
C          C      (N)  X      N-X      N      (N)  X      N-X
C ----CUMULATIVE PROBABILITY = SUM ( ) P (1-P)   OR  SUM ( ) P (1-P)
C ----
C          X=0  (X)          X=R  (X)
C
C
C ----      (N)
C ----THE FACTOR ( ) MEANS THE NUMBER OF COMBINATIONS OF N THINGS TAKEN X AT A
C ----      (X)
C ----TIME.
C
      DOUBLE PRECISION FACLOG,P,Q,AINTEG,CUMSUM
      DIMENSION FACLOG(1000)

```

```

COMMON CUMSUM,N,NS,P,Q,FACLOG
C
FACLOG(1) = 0.
DO 2 INTEG = 2,1000
AINTEG = INTEG
2 FACLOG(INTEG) = FACLOG(INTEG-1)+DLOG(AINTEG)
C
WRITE (6,31)
31 FORMAT (1H1/49X, 43HC (N) X N-X N (N) X N-X/
123X,66HCUMULATIVE PROBABILITY = SUM ( ) P (1-P) OR SUM ( )
2P (1-P)/48X,8HX=0 (X),17X,8HX=R (X)//, 28X,8HCUM PROB,11X,
31HN,10X,1HR,10X,1HC,12X,1HP,/)
C
INTEGER C,R,TAIL
I = 0
M = 0
K = 0
NAMELIST/INPUT/CUMSUM,TAIL,N,C,R
1 READ(5,INPUT)
REALR = R
REALN = N
REALC = C
C
C ----IF TAIL IS GREATER THAN ZERO, SUM SERIES FROM R TO N.
IF (TAIL.LE.0) GO TO 400
C
C ----IF R GREATER THAN N OR R LESS THAN 1 (ERROR CONDITIONS) GO TO NEXT CASE.
300 IF(R.GT.N.OR.R.LT.1) GO TO 1
C
IF(CUMSUM.EQ.0.) GO TO 330
IF(CUMSUM.EQ.1.) GO TO 331
IF(R.EQ.1) GO TO 320
IF (R.NE.N) GO TO 321
P = CUMSUM**(1./REALN)
GO TO 40
330 P = 0.
GO TO 40
331 P = 1.
GO TO 40
320 P = 1.-(1.-CUMSUM)**(1./REALN)
GO TO 40
C
C ----IF R IS GREATER THAN OR EQUAL TO (N+1)/2, USE SUMMATION FROM R TO N.
321 IF(REALR.LT.((REALN+1.)/2.)) GO TO 301
NS = R
CALL SERIES
GO TO 40
C
C ----IF R IS LESS THAN (N+1)/2, USE SUMMATION FROM N-R+1 TO N IN TERMS OF Q,P.
C ----BECAUSE SUM (R,N,P,Q) = 1-SUM(0,R-1,P,Q) = 1-SUM(N-R+1,N,Q,P).
301 NS = N-R+1
CUMSUM = 1.-CUMSUM
CALL SERIES
CUMSUM = 1.-CUMSUM
P = Q
GO TO 40

```

```

C
C ----IF C IS NEGATIVE OR IF C GREATER THAN OR EQUAL TO N (ERROR CONDITIONS).
C ----GO TO NEXT CASE.
400 IF(C.LT.0.OR.C.GE.N) GO TO 1
C
      IF(CUMSUM.EQ.0.) GO TO 430
      IF(CUMSUM.EQ.1.) GO TO 431
      IF(C.EQ.0) GO TO 420
      IF(C.NE.(N-1)) GO TO 421
      P = (1.-CUMSUM)**(1./REALN)
      GO TO 40
430 P = 1.
      GO TO 40
431 P = 0.
      GO TO 40
420 P = 1.-CUMSUM**(1./REALN)
      GO TO 40
C
C ----IF C IS LESS THAN OR EQUAL TO (N-1)/2, SUM(N-C,N,Q,P).
421 IF (REALC.GT.((REALN-1.)/2.)) GO TO 401
      NS = N-C
      CALL SERIFS
      P = Q
      GO TO 40
C ----IF C IS GREATER THAN (N-1)/2, SUM FROM C+1 TO N AND SUBTRACT FROM 1.
401 NS = C+1
      CUMSUM = 1.-CUMSUM
      CALL SERIES
      CUMSUM = 1.-CUMSUM
C
C ----THE VARIABLES I, M, AND K ARE LINE AND PAGE COUNTERS USED IN GROUPING THE
C ----OUTPUT AND DETERMINING THE PROPER HEADINGS.
40 I = I+1
      M = M+1
      IF (I.LE.5) GO TO 205
201 WRITE (6,21)
21 FORMAT (//)
      M = M+1
      I = 1
205 IF(K.GT.0) GO TO 203
      IF(M-47) 200,200,110
203 IF(M.LE.53) GO TO 200
110 WRITE (6,41)
41 FORMAT (1H1,/,28X,8HCUM PROB,11X,1HN,10X,1HR,10X,1HC,12X,1HP//)
      I = 1
      M = 0
      K = K+1
200 IF(TAIL.LE.0) GO TO 410
310 WRITE(6,46) CUMSUM,N,R,P
46 FORMAT(26X,F10.6,8X,I4,7X,I4, 18X,F10.6)
      GO TO 1
410 WRITE (6,47) CUMSUM,N,C,P
47 FORMAT (26X,F10.6,8X,I4,18X,I4,7X,F10.6)
C
      GO TO 1
      END

```

# SERIES

```

SUBROUTINE SERIES
C ----SUBROUTINE SERIES IS USED TO PERFORM THE SUMMATION COMPUTATION AND TO
C ----DETERMINE THE VALUE OF THE PARAMETER P TO DESIRED ACCURACY.
      DOUBLE PRECISION FACLOG,P,Q,AN,ANS,ANP,ANLNP,ANLIMT,ANS1,ANLNP1,
      1TERM1,AK11,CGUESS,TERM2,AK21,AK2,TERM3,AK3,ANP1,DERIV,CUMSUM,DELP
      DIMENSION FACLOG(1000)
      COMMON CUMSUM,i,NS,P,Q,FACLOG
C
      AN = N
      ANS = NS
C ----INITIAL GUESS ON P SUCH THAT SECOND DERIVATIVE OF BINOMIAL EQUALS 0.
      10 P = (ANS - 1.)/(AN - 1.)
      11 C = 1.-P
          NLIMIT = N-NS
          ANLIMT = NLIMIT
          NL1 = N-1
          ANS1 = ANS+1.
          DROP = 1.0 E-10
C
      2 NP = AN*P
          IF (NP.GE.1) GO TO 3
          NP = 1
      3 IF (NP.LT.N) GO TO 4
          NP = N-1
      4 ANP = NP
          ANP1 = ANP+1.
          NLNP = N-NP
          ANLNP = NLNP
          ANLNP1 = ANLNP+1.
          NSLNP = NS-NP
          NPLNS = NP-NS
C
C ----THE MEAN (NP) TERM IS USUALLY THE LARGEST SO CALCULATION OF THE SUMMATION
C ----STARTS WITH IT.
          TERM1 = DEXP(FACLOG(N)-FACLOG(NP)-FACLOG(NLNP)-ANP*DLOG(1./P)
          1-ANLNP*DLOG(1./Q))
C
C ----IF NP LESS THAN NS, START SUMMATION WITH NS TERM INSTEAD.
          IF (NP.GE.NS) GO TO 9
          15 DO 17 K11=1,NSLNP
              AK11 = K11
          17 TERM1 = TERM1*(ANLNP1-AK11)/(ANS1-AK11)*P/Q
C
      9 CGUESS = TERM1
          TERM2 = TERM1
C
          IF (NP.GT.NS) GO TO 43
C ----THE FOLLOWING LOOP COMPUTES NS+1 TERM, NS+2 TERM,....., N TERM.
      29 DO 37 K21 = NS,NL1
          AK21 = K21
          TERM2 = TERM2*(AN-AK21)/(AK21+1.)*P/Q
C ----DROP TERMS LESS THAN 10-10
          IF (TERM2.LE.DROP) GO TO 16
          37 CGUESS = CGUESS + TERM2
C
          GO TO 16
C ----TERMS GREATER THAN NP COMPUTED HERE.
      43 DO 7 K2 = NP,NL1
          AK2 = K2
          TERM2 = TERM2*(AN-AK2)/(AK2+1.)*P/Q
          IF (TERM2.LE.DROP) GO TO 22
          7 CGUESS = CGUESS+TERM2

```

```

C
C ----TERMS LESS THAN NP (INCLUDING NS TERM) COMPUTED HERE.
  22 TERM3 = TERM1
      DO 8 K3=1,NPLNS
      AK3 = K3
      TERM3 = TERM3*(ANP1-AK3)/((ANLNP+AK3)*Q/P
      IF (TERM3.LE.DROP) GO TO 16
  8 CGUESS = CGUESS+TERM3
C
C ----CALCULATION OF DERIVATIVE OF BINOMIAL SUMMATION.
  16 DERIV = DEXP(FACLOG(N)-FACLOG(NS-1)-FACLOG(NLIMIT)-(ANS-1.) *
      IDLOG(1./P)-ANLIMIT*DLOG(1./Q))
C
C ----THE FORM OF NEWTON-RAPHSON SOLUTION IS  $P2=P1-F(P1)/F'(P1)$ .
C ----DELP IS THE CORRECTION TO BE MADE ON P IF ACCURACY OF P IS NOT SATISFIED.
      DELP = (CGUESS-CUMSUM)/DERIV
      ACCRYP = ABS(DFLP)
      P = P-DELP
      Q = 1.-P
C
C ----ERROR OF THE FORM ABSOLUTE VALUE OF DELP IS COMPUTED ABOVE AS ACCRYP.
C ----INCREMENT P AND IF LAST INCREMENT IS LESS THAN .5 TIMES  $10^{-6}$ , PRINT
C ----RESULT. IF ACCRYP IS NOT SATISFIED, REPEAT FROM STATEMENT 2.
C
      IF (ACCRYP.LT..0000005) GO TO 39
      GO TO 2
C
  39 RETURN
      END

```

## APPENDIX B

### ADDITIONAL APPLICATIONS

Two additional applications of binomial parameter determination are given in this section.

#### Sampling Plans

A sampling plan is a procedure whereby acceptability of a large lot of material is determined from the study of a small sample taken from that lot. A random sample is taken and the items in the sample are examined and classified into two categories, defectives and effectives. Based on the number of defectives in the sample, a decision is made to either accept or reject the entire lot.

A single binomial sampling plan consists simply of the specification of the sample size  $n$  and the acceptance number  $c$  (ref. 18). If the sample contains  $c$  or fewer defectives, the lot is accepted. If the sample contains more than  $c$  defectives, the lot is rejected.

The symbol  $p$  is used in sampling plans for the fraction of the lot which is defective. In this notation, low values of  $p$  imply high quality material and high values imply low quality material.

If the fraction defective is  $p$ , the probability that a sample of size  $n$  will have  $c$  or fewer defective items is given by equation (6). This probability of  $c$  or fewer defectives is the probability of lot acceptance  $P_a$ ; that is,

$$P_a = \Pr(X \leq c | n, p) \quad (B1)$$

The consumer must realize that, since the lot of material is much larger than the sample, there is some chance that the lot is of bad quality even though the sample leads to lot acceptance. The consumer prefers to keep the risk of such an acceptance of bad quality material at a low value, usually around  $P_a = 0.10$ . This is referred to as the consumer's risk. On the other hand, the producer realizes that there is some chance that a sample will pick up more than  $c$  defectives and the lot will be rejected even though the lot is of good quality. The producer wants to keep the risk of having good quality material rejected at a suitably low level, usually around  $1 - P_a = 0.05$ . This is referred to as the producer's risk.

Given values for  $n$  and  $c$ , the producer and consumer wish to know the fraction defective  $p$  to be expected under the plan as  $P_a$  is varied. The curve of probability



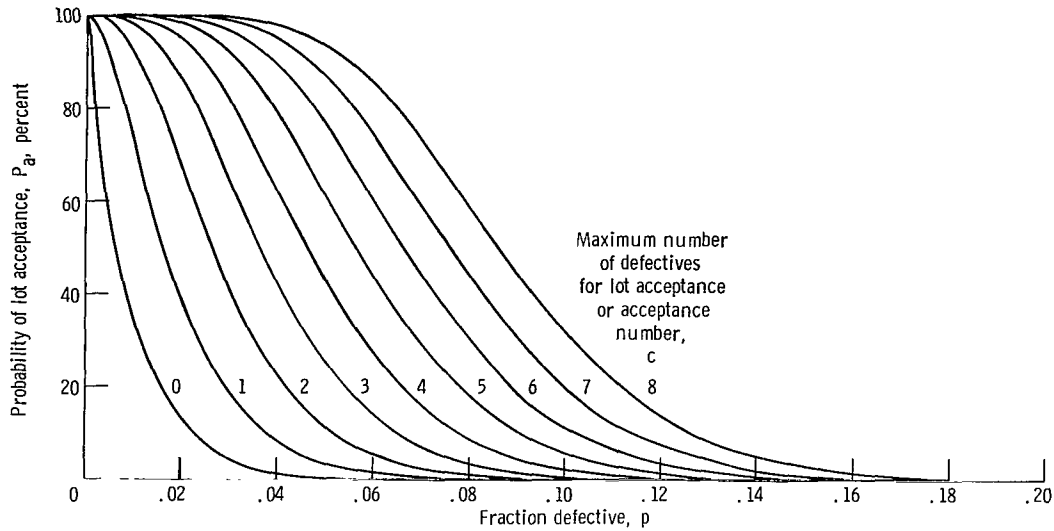


Figure 4. - Operating characteristic curves for single binomial sampling plans. Sample size, 100; acceptance number, 0 to 8.

of lot acceptance as a function of  $p$  is called the operating characteristic curve of the sampling plan. The operating characteristic curves for  $n = 100$ ,  $0 \leq c \leq 8$  are shown in figure 4. The data were obtained from the following table together with some unpublished results of the computer program run at  $P_a$  greater than 0.95 and  $P_a$  below 0.10.

CUM PROB	N	K	C	P
0.950000	100		0	0.000513
0.750000	100		0	0.002873
0.500000	100		0	0.006908
0.250000	100		0	0.013767
0.100000	100		0	0.022763
0.950000	100		1	0.003565
0.750000	100		1	0.009615
0.500000	100		1	0.016727
0.250000	100		1	0.026699
0.100000	100		1	0.038339
0.950000	100		2	0.008226
0.750000	100		2	0.017297
0.500000	100		2	0.026651
0.250000	100		2	0.038879
0.100000	100		2	0.052345
0.950000	100		3	0.013777
0.750000	100		3	0.025413
0.500000	100		3	0.036597
0.250000	100		3	0.050556
0.100000	100		3	0.065586

CUM PROR	N	R	C	P
0.950000	100		4	0.019906
0.750000	100		4	0.033795
0.500000	100		4	0.046553
0.250000	100		4	0.062031
0.100000	100		4	0.078348
0.950000	100		5	0.026450
0.750000	100		5	0.042361
0.500000	100		5	0.056512
0.250000	100		5	0.073327
0.100000	100		5	0.090771
0.950000	100		6	0.033312
0.750000	100		6	0.051067
0.500000	100		6	0.066474
0.250000	100		6	0.084487
0.100000	100		6	0.102939
0.950000	100		7	0.040429
0.750000	100		7	0.059882
0.500000	100		7	0.076436
0.250000	100		7	0.095539
0.100000	100		7	0.114903
0.950000	100		8	0.047757
0.750000	100		8	0.068789
0.500000	100		8	0.086400
0.250000	100		8	0.106501
0.100000	100		8	0.126698

For example, from the table, given the plan  $n = 100$  and  $c = 3$ , the fraction defective accepted 10 percent of the time is 0.065586, while the fraction defective accepted 95 percent of the time is 0.013777. This means that the producer will, on the average, have 5 percent of his good lots rejected under this plan if the lots which he produces have a fraction defective of 0.013777. Likewise, the consumer is assured that, under this plan, he will on the average accept bad lots having fraction defective 0.065586 only 10 percent of the time.

### Confidence Intervals

Probability can be determined empirically. A sample of size  $n$  is taken,  $r$  of the items are classified as successes, and  $n - r$  are classified as failures. A point estimate for the probability of success in the population is the quantity  $r/n$ .

Sometimes an interval estimate for  $p$  is given along with a statement concerning the confidence that the interval contains the true value of  $p$ . This is called the confi-

dence interval for  $p$  and is determined from

$$\Pr(p_l \leq p \leq p_u | n, r) = 1 - \alpha \quad (B2)$$

where  $1 - \alpha$  is the confidence coefficient.

Whereas the point estimate for  $p$  is dependent only on the ratio  $r/n$  without regard to the actual sample size, the confidence interval for  $p$  depends on the numerical value of  $n$  as well; that is, a larger sample extracts more information about the population and hence a smaller interval is specified.

The numerical values of the end points of the symmetrical confidence interval are obtained from the solution of

$$\Pr(X \geq r | n, p_l) = \frac{\alpha}{2} \quad (B3)$$

and

$$\Pr(X \leq r | n, p_u) = \frac{\alpha}{2} \quad (B4)$$

The following table shows confidence intervals for  $p$  for  $r/n$  values of 0.4, 0.5, and 0.8 for  $n = 50$  and  $n = 100$ . If a sample of size 50 has 40 successes, the 95 percent confidence interval for  $p$  is 0.662817 to 0.899698. A sample of size 100 with 80 successes results in the same point estimate of 0.80 for  $p$ ; the larger sample size, however, narrows the 95 percent confidence interval to 0.708157 to 0.873344.

CUM PROB	N	R	L	P
0.025000	50	20		0.264078
0.025000	50		20	0.548206
0.050000	50	20		0.283131
0.050000	50		20	0.526120
0.025000	50	25		0.355273
0.025000	50		25	0.644727
0.050000	50	25		0.376246
0.050000	50		25	0.623754
0.025000	50	40		0.662817
0.025000	50		40	0.899698
0.025000	100	40		0.303295
0.025000	100		40	0.502791
0.050000	100	40		0.317526
0.050000	100		40	0.487024
0.025000	100	50		0.398321
0.025000	100		50	0.601679
0.050000	100	50		0.413622
0.050000	100		50	0.586378
0.025000	100	80		0.708157
0.025000	100		80	0.873344

## REFERENCES

1. Barlow, Richard E. ; and Proschan, Frank: *Mathematical Theory of Reliability*. John Wiley & Sons, Inc. , 1965, pp. 216-219.
2. Anon. : *Tables of the Cumulative Binomial Probability Distribution*. Harvard Univ. Press, 1955.
3. Anon. : *Tables of the Binomial Probability Distribution*. Appl. Math. Series No. 6, National Bureau of Standards, Jan. 27, 1950.
4. Anon. : *Tables of the Cumulative Binomial Probabilities*. Ordnance Corps, Washington, D.C. , 1952.
5. Romig, Harry G. : *50-100 Binomial Tables*. John Wiley & Sons, Inc. , 1953.
6. Robertson, William H. : *Tables of the Binomial Distribution Function for Small Values of p*. Rep. SCR-143, Sandia Corp. , Jan. 1960.
7. Weintraub, Sol: *Tables of the Cumulative Binomial Probability Distribution for Small Values of p*. Free Press of Glencoe, New York, 1963.
8. Pearson, Karl, ed. : *Tables of the Incomplete  $\Gamma$ -Function*. Office of Biometrika, London, 1934.
9. Pearson, Egon S. ; and Hartley, H. O. , eds. : *Biometrika Tables for Statisticians*. Vol. I. Cambridge University Press, 1962.
10. Brownlee, Kenneth A. : *Statistical Theory and Methodology in Science and Engineering*. Second ed. , John Wiley & Sons, Inc. , 1965.
11. Anon. : *Tables of the Individual and Cumulative Terms of Poisson Distribution*. Defense Systems Dept. , General Electric Co. , 1962.
12. Lloyd, David K. ; and Lipow, Myron: *Reliability: Management, Methods, and Mathematics*. Prentice-Hall, Inc. , 1962.
13. Holms, Arthur G. : *The Design of Micrometeoroid Penetration Experiments as Single-Sampling Life-Test Sampling Plans*. NASA TN D-1989, 1964.
14. Leone, Fred C. ; Hayman, George E. ; Chu, John T. ; and Topp, Chester W. : *Percentiles of the Binomial Distribution*. Rep. 1030, Case Inst. Tech. Statistical Lab. (AFOSR TN 60-620), June 1960.
15. Bien, Darl D. : *A Computer Program for Reversion of the Cumulative Binomial Probability Distribution*. NASA TM X-1592, 1968.
16. McCracken, Daniel D. ; and Dorn, William S. : *Numerical Methods and FORTRAN Programming*. John Wiley & Sons, Inc. , 1964, pp. 133-135.

17. Haller, Henry C.; Lieblein, Seymour; and Lindow, Bruce G.: Analysis and Evaluation of a Vapor-Chamber Fin-Tube Radiator For High-Power Rankine Cycles. NASA TN D-2836, 1965.
18. Duncan, Acheson J.: Quality Control and Industrial Statistics. Third ed., Richard D. Irwin, Inc., 1965.

TABLE I. - COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

Explanation of Table

The cumulative binomial parameter satisfying equation (3) is extensively tabulated in the following table. The range of parameters is particularly useful in r-out-of-n redundancy problems. Values of cumulative probability (system reliability) tabulated are 0.80, 0.90, 0.95, 0.975, 0.99, 0.995, 0.999, 0.9995, and 0.9999. The n and r values are chosen in pairs: n = 2, 3, 4, . . . , 50 and r = 1, 2, 3, . . . , 50; n = 52, 54, 56, . . . , 100 and r ≈ n/2, (n/2) + 1, (n/2) + 2, . . . , n; n = 110, 120, 130, . . . , 500 and r = n/2, (n/2) + 5, (n/2) + 10, . . . , n; n = 525, 550, 575, . . . , 1000 and r ≈ n/2, (n/2) + 10, (n/2) + 20, . . . , n.

The computer program of appendix A was used, with format modifications, to produce the tables. Columns headed N and R correspond to n and r, respectively; the value in the body of the tables is the parameter p accurate to all six places.

$$\text{Cumulative Probability} = \sum_{x=R}^N \binom{N}{x} p^x (1-p)^{N-x}$$

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
2	1	.552786	.683772	.776393	.841886	.900000	.929289	.968377	.977639	.990000
	2	.894427	.948683	.974679	.987421	.994987	.997497	.999500	.999750	.999950
3	1	.415196	.535841	.631597	.707598	.784557	.829002	.900000	.920630	.953584
	2	.712859	.804200	.864650	.905701	.941097	.958600	.981630	.987034	.994215
	3	.928318	.965489	.983048	.991596	.996655	.998331	.999667	.999833	.999967
4	1	.331260	.437659	.527129	.602365	.683772	.734085	.822172	.850465	.900000
	2	.582454	.679539	.751395	.805880	.859132	.889115	.935962	.949350	.970541
	3	.787683	.857441	.902389	.932414	.958001	.970555	.986977	.990815	.995906
	4	.945742	.974004	.987259	.993691	.997491	.998748	.999750	.999875	.999975
5	1	.275220	.369043	.450720	.521824	.601893	.653428	.748811	.781327	.841510
	2	.490192	.583890	.657408	.716418	.777928	.814903	.877986	.897846	.932187
	3	.673402	.753364	.810745	.853367	.894360	.917171	.952448	.962452	.978218
	4	.831391	.887765	.923560	.947255	.967318	.977119	.989898	.992878	.996828
	5	.956352	.979148	.989794	.994949	.997992	.998998	.999800	.999900	.999980
6	1	.235275	.318708	.393038	.459258	.535841	.586481	.683772	.718273	.784556
	2	.422448	.510316	.581803	.641235	.705686	.746007	.818614	.842835	.887031
	3	.585394	.666806	.728662	.777222	.826930	.856404	.906046	.921516	.948099
	4	.731351	.799091	.846839	.881883	.915270	.933721	.962084	.970090	.982675
	5	.860119	.907405	.937150	.956728	.973237	.981279	.991744	.994181	.997409
	6	.963492	.982593	.991488	.995789	.998326	.999165	.999833	.999917	.999983
7	1	.205403	.280314	.348164	.409616	.482053	.530883	.627241	.662383	.731730
	2	.370862	.452565	.520703	.578723	.643365	.684912	.762521	.789435	.840362
	3	.516758	.596180	.658739	.709579	.763676	.797028	.856226	.875747	.911098
	4	.649906	.721398	.774678	.815948	.857730	.882296	.923345	.936058	.957816
	5	.771674	.830362	.871244	.901012	.929196	.944701	.968439	.975120	.985603
	6	.880461	.921177	.946624	.963307	.977335	.984156	.993018	.995080	.997810
	7	.968625	.985061	.992699	.996390	.998565	.999284	.999857	.999929	.999986
8	1	.182235	.250106	.312344	.369417	.437659	.484331	.578303	.613302	.683772
	2	.330365	.406245	.470679	.526510	.589942	.631517	.711276	.739717	.794965
	3	.462098	.538215	.599689	.650856	.706770	.742169	.807300	.829609	.871466
	4	.583655	.655377	.710759	.755137	.801798	.830299	.880430	.896840	.926409
	5	.696774	.760338	.807097	.842987	.879050	.900133	.935170	.945974	.964417
	6	.801403	.853145	.888887	.914767	.939160	.952536	.972957	.978691	.987679
	7	.895627	.931374	.953611	.968146	.980342	.986264	.993951	.995738	.998103
	8	.972492	.986916	.993609	.996840	.998744	.999374	.999875	.999937	.999987
9	1	.163749	.225736	.283129	.336267	.400516	.444953	.535841	.570247	.640618
	2	.297770	.368362	.429136	.482497	.544034	.584969	.665109	.694293	.752125
	3	.417682	.490081	.549642	.600094	.656315	.692606	.761152	.785284	.831742
	4	.529136	.599420	.655059	.700705	.749974	.780864	.837140	.856260	.891936
	5	.633913	.699031	.748632	.787991	.829035	.853944	.897477	.911652	.937110
	6	.732453	.789604	.831250	.863004	.894738	.913212	.943794	.953194	.969209
	7	.824250	.870503	.902253	.925145	.946652	.958415	.976336	.981361	.989228
	8	.907373	.939231	.958977	.971855	.982644	.987876	.994663	.996240	.998327
	9	.975511	.988362	.994317	.997191	.998884	.999443	.999889	.999944	.999989
10	1	.148660	.205672	.258866	.308497	.369043	.411296	.498813	.532376	.601892
	2	.270988	.336848	.394163	.445016	.504353	.544287	.623723	.653130	.712324
	3	.390937	.449604	.506901	.556095	.611743	.648201	.718457	.743711	.793292
	4	.483657	.551731	.606624	.652453	.702884	.735114	.795363	.816394	.856638
	5	.580865	.645784	.696463	.737622	.781662	.809084	.858691	.875449	.906591
	6	.673172	.732682	.777559	.812914	.849557	.871689	.910187	.922675	.945043
	7	.760559	.812438	.849972	.878448	.906786	.923232	.950373	.958695	.972853
	8	.842365	.884175	.912736	.933260	.952493	.962993	.978962	.983433	.990430
	9	.916740	.945471	.963229	.974789	.984462	.989149	.995226	.996637	.998503
	10	.977933	.989519	.994884	.997471	.998995	.999499	.999900	.999950	.999990

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
11	1	.136112	.188869	.238404	.284914	.342067	.382246	.466330	.498921	.567123
	2	.248602	.310243	.364359	.412780	.469816	.508565	.586641	.615930	.675634
	3	.350067	.415157	.470087	.517756	.572323	.608495	.679315	.705192	.756787
	4	.445222	.510761	.564374	.609743	.660417	.693283	.755948	.778277	.821835
	5	.535690	.599473	.650188	.692095	.737798	.766798	.820606	.839273	.874836
	6	.622135	.682281	.728750	.766206	.806023	.830688	.875071	.889999	.917656
	7	.704735	.759467	.800424	.832512	.865612	.885531	.920051	.931216	.951174
	8	.783287	.830767	.864925	.890737	.916340	.931161	.955562	.963031	.975720
	9	.857085	.895226	.921180	.939782	.957177	.966659	.981061	.985090	.991390
	10	.924385	.950548	.966681	.977169	.985935	.990180	.995680	.996957	.998646
	11	.979919	.990467	.995348	.997701	.999087	.999544	.999909	.999955	.999991
12	1	.125515	.174596	.220922	.264648	.318708	.356946	.437659	.469220	.535840
	2	.229617	.287498	.338681	.384796	.439544	.477026	.553359	.582308	.641933
	3	.323782	.385522	.438105	.484138	.537343	.572950	.643568	.669715	.722504
	4	.412351	.475266	.527327	.571858	.622193	.655222	.719198	.742366	.788255
	5	.496848	.559003	.609138	.651124	.697596	.727515	.784124	.804165	.843077
	6	.577939	.637724	.684762	.723330	.765107	.791472	.840115	.856910	.888799
	7	.655888	.711828	.754700	.789055	.825390	.847807	.887979	.901444	.926332
	8	.730687	.781319	.818975	.848348	.878533	.896645	.927941	.938038	.956060
	9	.802054	.845812	.877149	.900754	.924105	.937595	.959763	.966537	.978036
	10	.869284	.904347	.928130	.945139	.961018	.969663	.982779	.986444	.992174
	11	.930743	.954759	.969540	.979137	.987153	.991032	.996056	.997222	.998764
12	.981577	.991258	.995735	.997892	.999163	.999582	.999917	.999958	.999992	
13	1	.116446	.162322	.205817	.247053	.298296	.334730	.412198	.442718	.507611
	2	.213316	.267836	.316340	.360297	.412827	.449025	.523403	.551867	.611011
	3	.301141	.359776	.410099	.454471	.506171	.541044	.610951	.637119	.690501
	4	.383941	.444263	.494650	.538132	.587759	.620636	.685138	.708806	.756270
	5	.463142	.523429	.572619	.614262	.660900	.691277	.749651	.770651	.812043
	6	.539395	.598239	.645201	.684222	.727113	.754572	.806218	.824411	.859608
	7	.612998	.669141	.712951	.748655	.787123	.811295	.855694	.870967	.899888
	8	.684036	.736270	.776045	.807768	.841182	.861729	.898429	.910697	.933328
	9	.752415	.799498	.834341	.861421	.889165	.905771	.934399	.943617	.960049
	10	.817818	.858389	.887334	.909080	.930545	.942924	.963234	.969433	.979947
	11	.879561	.912004	.933950	.949619	.964225	.972168	.984210	.987572	.992827
12	.936114	.958309	.971947	.980793	.988176	.991748	.996371	.997444	.998863	
13	.982982	.991928	.996062	.998054	.999277	.999614	.999923	.999962	.999997	
14	1	.108598	.151657	.192636	.231636	.280314	.315079	.389460	.418952	.482052
	2	.199169	.250675	.296734	.338684	.389095	.424026	.496348	.524241	.582627
	3	.281441	.337214	.385390	.428129	.478264	.512307	.581169	.607184	.666717
	4	.359154	.416977	.465657	.507976	.556669	.589183	.653659	.677576	.726034
	5	.433644	.491965	.540005	.581035	.627435	.657944	.717324	.738966	.782147
	6	.505537	.563108	.609585	.648620	.692030	.720144	.773839	.793056	.830789
	7	.575143	.630868	.674972	.711391	.751200	.776574	.824073	.840739	.872887
	8	.642594	.695446	.736415	.769639	.805282	.827602	.868448	.882456	.908924
	9	.707886	.756843	.793927	.823389	.854318	.873286	.907072	.918340	.939094
	10	.770879	.814866	.847282	.872402	.898071	.913405	.939786	.948267	.963369
	11	.831248	.869061	.895953	.916111	.935972	.947410	.966152	.971865	.981550
12	.888337	.918523	.938897	.953421	.966943	.974291	.985420	.988527	.993380	
13	.940711	.961342	.974001	.982205	.989048	.992358	.996640	.997634	.998947	
14	.984188	.992502	.996343	.998193	.999282	.999642	.999929	.999964	.999993	
15	1	.101740	.142304	.181036	.218019	.264358	.297578	.369043	.397536	.458830
	2	.186777	.235569	.279396	.319485	.367891	.401592	.471827	.499096	.556542
	3	.264148	.317287	.363442	.404603	.453166	.486330	.553932	.579672	.633034
	4	.337346	.392793	.439784	.480891	.528514	.560528	.624588	.648570	.697582
	5	.407628	.463971	.510752	.551003	.596893	.627307	.687132	.709173	.753601



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
15	6	.475591	.531708	.577444	.616196	.659710	.688157	.743178	.763125	.802769	
	7	.541545	.596467	.640435	.677130	.717711	.743871	.793593	.811314	.846003	
	8	.605643	.658479	.700014	.734139	.771274	.794857	.838835	.854214	.883812	
	9	.667932	.717816	.756273	.787333	.820536	.841267	.879094	.892033	.916439	
	10	.728360	.774409	.809135	.836636	.865424	.883039	.914344	.924765	.943933	
	11	.786767	.828032	.858336	.881759	.905644	.919887	.944350	.952204	.966176	
	12	.842829	.878231	.903342	.922128	.940610	.951241	.968639	.973938	.982915	
	13	.895919	.924141	.943153	.956688	.969277	.976112	.986459	.989345	.993853	
	14	.944691	.963963	.975774	.983424	.989801	.992883	.996872	.997797	.999020	
	15	.985234	.993001	.996586	.998314	.999330	.999666	.999933	.999967	.999993	
	16	1	.095696	.134036	.170750	.205907	.250106	.281899	.350618	.378150	.437658
		2	.175833	.222172	.263957	.302321	.348838	.381359	.449522	.476139	.532527
		3	.248848	.299564	.343825	.383476	.430493	.462759	.528970	.554352	.607310
		4	.318016	.371222	.416572	.456457	.502936	.534362	.597732	.621643	.670874
		5	.384522	.438922	.484396	.523771	.568971	.599130	.658989	.681245	.726494
6		.448934	.503510	.548347	.586621	.629945	.658493	.714292	.734740	.775789	
7		.511556	.565440	.608988	.645654	.686591	.713229	.764493	.782999	.819660	
8		.572552	.624958	.666626	.701223	.739308	.763767	.810070	.826516	.858628	
9		.631994	.682173	.721397	.753490	.788284	.810313	.851260	.865541	.892970	
10		.689980	.737085	.773308	.802466	.833540	.852896	.888122	.900147	.922792	
11		.746134	.789587	.822234	.848016	.874941	.891385	.920551	.930244	.948052	
12		.800586	.839441	.867889	.889830	.912162	.925460	.948268	.955581	.968581	
13		.852918	.886198	.909748	.927338	.944619	.954549	.970784	.975725	.984092	
14		.902536	.929034	.946854	.959526	.971302	.977692	.987359	.990054	.994263	
15		.948170	.966251	.977321	.984486	.990456	.993342	.997074	.997939	.999083	
16	.986150	.993437	.996799	.998419	.999372	.999687	.999937	.999969	.999994		
17	1	.090329	.126674	.161566	.195064	.237301	.267774	.333915	.360528	.418290	
	2	.166098	.210211	.250124	.286889	.331633	.363028	.429161	.455118	.510374	
	3	.235217	.283702	.326193	.364409	.409923	.441292	.506039	.531006	.583391	
	4	.300768	.351869	.395641	.434318	.479621	.510404	.572897	.596638	.645833	
	5	.363871	.416390	.460549	.498993	.543388	.573180	.632772	.655103	.700840	
	6	.425065	.478071	.521918	.559583	.602513	.630991	.687154	.707923	.749973	
	7	.484647	.537355	.580295	.616716	.657709	.684594	.736874	.755949	.794115	
	8	.542783	.594489	.635991	.670753	.709383	.734424	.782415	.799679	.833787	
	9	.599559	.649605	.689170	.721882	.757752	.780718	.824045	.839390	.869290	
	10	.655002	.702743	.739886	.770167	.802894	.823562	.861874	.875205	.900767	
	11	.709083	.753863	.788092	.815563	.844765	.862917	.895880	.907112	.928236	
	12	.761712	.802839	.833637	.857903	.883191	.898610	.925912	.934973	.951604	
	13	.812716	.849423	.876229	.896864	.917834	.930305	.951667	.958510	.970665	
	14	.861788	.893183	.915355	.931892	.948120	.957435	.972654	.977282	.985116	
	15	.908361	.933332	.950102	.962015	.973077	.979076	.988146	.990675	.994621	
16	.951237	.968266	.978682	.985421	.991033	.993744	.997251	.998064	.999139		
17	.986960	.993821	.996987	.998512	.999409	.999705	.999941	.999971	.999994		
18	1	.085532	.120077	.153318	.185302	.225736	.254985	.318708	.344444	.400515	
	2	.157383	.199468	.237661	.272944	.316024	.346349	.410513	.435809	.489895	
	3	.222997	.269424	.310263	.347120	.391187	.421672	.484920	.509436	.561130	
	4	.285285	.334413	.376679	.414177	.458298	.488408	.549897	.573395	.622362	
	5	.345306	.396022	.438883	.476373	.519890	.549240	.608344	.630643	.676608	
	6	.403576	.455021	.497828	.534802	.577196	.605480	.661693	.682643	.725373	
	7	.460378	.511836	.554046	.590075	.630905	.657862	.710751	.730223	.769514	
	8	.515880	.566715	.607845	.642549	.681425	.706821	.756000	.773878	.809552	
	9	.570176	.619800	.659402	.692428	.728987	.752609	.797722	.813902	.845798	
	10	.623307	.671154	.708799	.739809	.773704	.795347	.836062	.850446	.878424	
	11	.675274	.720779	.756039	.784698	.815589	.835053	.871051	.883553	.907488	
	12	.726030	.768610	.801047	.827014	.854556	.871646	.902621	.913159	.932956	
	13	.775480	.814510	.843656	.866573	.890412	.904927	.930591	.939097	.954697	
	14	.823451	.858232	.883574	.903051	.922815	.934556	.954645	.961075	.972489	
	15	.869447	.899359	.920305	.935908	.951203	.959977	.974298	.978651	.986016	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
18	16	.513528	.937140	.952975	.964215	.974644	.980297	.988841	.991222	.994938
	17	.553961	.970054	.979889	.986249	.991543	.994101	.997408	.998175	.999188
	18	.587680	.994164	.997154	.998594	.999442	.999722	.999944	.999972	.999994
19	1	.081219	.114133	.145869	.176467	.215240	.243353	.304807	.329712	.384151
	2	.149536	.189766	.226374	.260281	.301801	.331112	.393376	.418023	.470922
	3	.211980	.256507	.295802	.331377	.374055	.403679	.465422	.489465	.540384
	4	.271310	.318591	.359426	.395785	.438734	.468158	.528560	.551764	.600358
	5	.228531	.377527	.419120	.455653	.498252	.527110	.585566	.607753	.653743
	6	.284132	.434048	.475797	.512029	.553789	.581790	.637816	.658839	.701989
	7	.438389	.488564	.529967	.565502	.606011	.632910	.686092	.705825	.745931
	8	.491464	.541321	.581936	.616422	.655319	.680898	.730870	.749199	.786087
	9	.543456	.592463	.631885	.665002	.701953	.726014	.772438	.789263	.822758
	10	.594417	.642070	.679913	.711357	.746047	.768400	.810963	.826189	.856148
	11	.644362	.690166	.726054	.755525	.787647	.808111	.846512	.860051	.886342
	12	.693274	.736727	.770279	.797479	.826726	.845121	.879070	.890839	.913345
	13	.741100	.781676	.812496	.837114	.863175	.879319	.908535	.918460	.937087
	14	.787737	.824869	.852530	.874239	.896787	.910499	.934710	.942726	.957417
	15	.833018	.866064	.890094	.908534	.927224	.938316	.957277	.963340	.974099
16	.876658	.904858	.924706	.939475	.953939	.962231	.975755	.979864	.986814	
17	.918143	.940535	.955535	.966174	.976039	.981384	.989459	.991709	.995219	
18	.956397	.971651	.980967	.986988	.991999	.994419	.997548	.998273	.999232	
19	.988324	.994470	.997304	.998668	.999471	.999736	.999947	.999974	.999995	
20	1	.077319	.108749	.139108	.168433	.205672	.232729	.292054	.316169	.369042
	2	.142432	.180961	.216106	.248733	.288790	.317142	.377582	.401592	.453305
	3	.201998	.244765	.282619	.316983	.358335	.387125	.447376	.470934	.521023
	4	.258635	.304187	.343664	.378927	.420729	.449465	.508729	.531603	.579716
	5	.313300	.360662	.401028	.436614	.478276	.506609	.564304	.586317	.632174
	6	.366459	.414890	.455582	.491046	.532106	.559761	.615421	.636431	.679796
	7	.418378	.467267	.507818	.542789	.582864	.609608	.662838	.682722	.723393
	8	.469215	.518031	.558035	.592189	.630939	.656569	.707020	.725669	.763466
	9	.519070	.567329	.606415	.639457	.676576	.700905	.748261	.765576	.800335
	10	.568000	.615249	.653069	.684722	.719920	.742774	.786736	.802627	.834199
	11	.616032	.661829	.698046	.728042	.761040	.782252	.822539	.836919	.865167
	12	.663164	.707071	.741349	.769427	.799945	.819351	.855689	.868477	.893276
	13	.709370	.750935	.782931	.808810	.836580	.854016	.886138	.897258	.918497
	14	.754589	.793336	.822689	.846091	.870821	.886120	.913766	.923146	.940735
	15	.798720	.834128	.860446	.881068	.902458	.915450	.938365	.945945	.959827
16	.841600	.873074	.895919	.913429	.931155	.941666	.959618	.965355	.975530	
17	.882953	.909787	.928646	.942666	.956385	.964244	.977056	.980947	.987525	
18	.922290	.943582	.957831	.967929	.977289	.982357	.990012	.992144	.995470	
19	.958588	.973086	.981935	.987651	.992408	.994705	.997674	.998362	.999271	
20	.988905	.994746	.997439	.998735	.999498	.999749	.999950	.999975	.999995	
21	1	.073777	.103849	.132946	.161098	.196914	.222989	.280314	.303681	.355053
	2	.135972	.172935	.206725	.238160	.276845	.304289	.362982	.386373	.436912
	3	.192911	.234047	.270552	.303774	.343864	.371850	.430633	.453702	.502925
	4	.247087	.291020	.329211	.363424	.404110	.432165	.490264	.512782	.560334
	5	.299411	.345224	.384408	.419066	.459787	.487577	.544431	.566225	.611825
	6	.350328	.397327	.436976	.471660	.511980	.539243	.594403	.615334	.658751
	7	.400094	.447711	.487389	.521751	.561309	.587825	.640914	.660863	.701894
	8	.448864	.496606	.535936	.569675	.608155	.633732	.684418	.703280	.741748
	9	.496735	.544161	.582801	.615646	.652760	.677225	.725207	.742887	.778630
	10	.543768	.590465	.628099	.659794	.695277	.718467	.763465	.779874	.812745
	11	.589997	.635568	.671891	.702193	.735789	.757551	.799299	.814355	.844216
	12	.635431	.679487	.714200	.742869	.774329	.794511	.832753	.846377	.873101
	13	.680060	.722206	.755006	.781803	.810877	.829329	.863816	.875933	.899401
	14	.723849	.763676	.794250	.818928	.845362	.861934	.892418	.902956	.923064
	15	.766735	.803806	.831824	.854123	.877652	.892190	.918427	.927319	.943981

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
21	16	.808619	.842452	.867552	.887191	.907535	.919879	.941631	.948820	.961978
	17	.849341	.879384	.901156	.917824	.934682	.944670	.961716	.967160	.976810
	18	.888636	.914229	.932194	.945536	.958583	.966053	.978224	.981918	.988163
	19	.926037	.946332	.959900	.969511	.978414	.983234	.990510	.992536	.995697
	20	.960569	.974383	.982809	.988251	.992777	.994963	.997787	.998442	.999307
	21	.989430	.994995	.997560	.998795	.999522	.999761	.999952	.999976	.999995
22	1	.070544	.099372	.127305	.154373	.188869	.214027	.269473	.292130	.342066
	2	.130073	.165589	.198122	.228444	.265840	.292426	.349448	.372241	.421626
	3	.184605	.224224	.259467	.291613	.330500	.357713	.415063	.437644	.485982
	4	.236523	.278938	.315913	.349122	.388727	.416112	.473038	.495183	.542117
	5	.286695	.331040	.369091	.402846	.442633	.469871	.525829	.547370	.592620
	6	.335548	.381172	.419800	.453704	.493261	.520101	.574661	.595462	.638799
	7	.383326	.429697	.468495	.502221	.541206	.567440	.620241	.640187	.681413
	8	.430181	.476841	.515457	.548724	.586840	.612287	.663012	.682001	.720941
	9	.476209	.522750	.560868	.593423	.630402	.654899	.703263	.721203	.757699
	10	.521472	.567516	.604844	.636453	.672048	.695443	.741181	.757988	.791894
	11	.566007	.611194	.647456	.677895	.711871	.734021	.776884	.792478	.823659
	12	.609931	.653812	.688736	.717789	.749918	.770685	.810431	.824737	.853065
	13	.652945	.695368	.728687	.756138	.786194	.805440	.841836	.854780	.880138
	14	.695329	.735838	.767276	.792907	.820662	.838250	.871065	.882578	.904853
	15	.736945	.775166	.804437	.828021	.853241	.869031	.898035	.908049	.927143
	16	.777732	.813261	.840059	.861353	.883793	.897642	.922606	.931059	.946887
	17	.817588	.849978	.873966	.892711	.912107	.923866	.944567	.951403	.963909
	18	.856359	.885095	.905891	.921794	.937864	.947379	.963606	.968785	.977963
	19	.893792	.918253	.935404	.948133	.960570	.967687	.979279	.982796	.988739
	20	.929439	.948826	.961776	.970944	.979433	.984027	.990961	.992891	.995902
	21	.962369	.975560	.983602	.988794	.993112	.995197	.997890	.998514	.999339
	22	.989908	.995222	.997671	.998850	.999543	.999772	.999955	.999977	.999995
23	1	.067583	.095264	.122123	.148185	.181453	.205754	.259431	.281417	.329981
	2	.124663	.158841	.190204	.219487	.255671	.281444	.336872	.359087	.407343
	3	.176984	.215189	.249249	.280379	.318123	.344595	.400551	.422651	.470094
	4	.226822	.267814	.303638	.335889	.374451	.401183	.456937	.478701	.524574
	5	.275010	.317967	.354932	.387812	.426681	.453365	.508393	.529656	.574483
	6	.321956	.366263	.403899	.437031	.475814	.502212	.556099	.576730	.619883
	7	.367896	.413053	.450975	.484052	.522425	.548339	.600739	.620626	.661912
	8	.412974	.458556	.496435	.529192	.566874	.592133	.642743	.661788	.701037
	9	.457287	.502913	.540456	.572656	.609399	.633847	.682397	.700512	.737567
	10	.500896	.546219	.583155	.614581	.650153	.673649	.719888	.736992	.771711
	11	.543842	.588531	.624606	.655053	.689236	.711648	.755340	.771356	.803608
	12	.586145	.629884	.664852	.694122	.726707	.747904	.788824	.803680	.833339
	13	.627812	.670287	.703907	.731804	.762584	.782441	.820370	.833997	.860944
	14	.668837	.709731	.741757	.768086	.796856	.815248	.849969	.862299	.886424
	15	.709196	.748183	.778364	.802924	.829474	.846274	.877573	.888540	.909738
	16	.748850	.785584	.813656	.836236	.860349	.875427	.903090	.912631	.930807
	17	.787734	.821842	.847520	.867897	.889343	.902565	.926376	.934431	.949505
	18	.825751	.856816	.879785	.897714	.916247	.927473	.947220	.953737	.965652
	19	.862751	.890289	.910191	.925397	.940750	.949834	.965317	.970257	.979007
	20	.898491	.921917	.938324	.950492	.962375	.969172	.980236	.983592	.989261
	21	.932542	.951098	.963485	.972248	.980360	.984749	.991371	.993214	.996088
	22	.964012	.976634	.984326	.989290	.993418	.995410	.997984	.998580	.999369
	23	.990345	.995430	.997772	.998900	.999563	.999782	.999956	.999978	.999996
24	1	.064861	.091482	.117346	.142474	.174596	.198093	.250106	.271454	.318707
	2	.119685	.152620	.182892	.211202	.246246	.271250	.325156	.346814	.393971
	3	.169965	.206852	.239801	.269973	.306630	.332391	.386997	.408623	.455172
	4	.217884	.257538	.292273	.323611	.361170	.387265	.441860	.463238	.508823
	5	.264237	.305879	.341807	.373842	.411812	.437946	.492024	.512992	.557340

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
24	6	.309417	.352465	.389139	.421513	.459520	.485464	.538625	.559056	.601944	
	7	.353650	.397633	.434691	.467113	.504849	.530414	.582327	.602112	.643350	
	8	.397077	.441596	.478728	.510948	.548149	.573172	.623547	.642592	.682013	
	9	.439792	.484491	.521423	.553220	.589650	.613986	.662564	.680785	.718237	
	10	.481855	.526412	.562893	.594064	.629507	.653022	.699566	.716884	.752230	
	11	.523308	.567420	.603215	.633569	.667823	.690392	.734680	.751022	.784132	
	12	.564176	.607553	.642436	.671792	.704663	.726166	.767985	.783282	.814035	
	13	.604471	.646828	.680579	.708758	.740056	.760377	.799522	.813708	.841588	
	14	.644191	.685245	.717644	.744470	.774008	.793031	.829300	.842310	.868007	
	15	.683326	.722787	.753611	.778903	.806491	.824102	.857296	.869067	.892075	
	16	.721849	.759417	.788434	.812007	.837451	.853532	.883449	.893920	.914141	
	17	.759718	.795074	.822039	.843698	.866795	.881224	.907664	.916774	.934118	
	18	.796871	.829666	.854314	.873848	.894384	.907035	.929794	.937487	.951876	
	19	.833213	.863055	.885089	.902270	.920013	.930753	.949630	.955856	.967235	
	20	.868597	.895033	.914115	.928681	.943379	.952070	.966875	.971596	.979956	
	21	.902791	.925265	.940992	.952646	.964022	.970525	.981108	.984317	.989738	
	22	.935383	.953177	.965047	.973441	.981207	.985408	.991745	.993508	.996258	
	23	.965518	.977618	.984988	.989744	.993697	.995605	.998069	.998641	.999395	
	24	.990745	.995620	.997865	.998946	.999581	.999791	.999958	.999979	.999996	
	25	1	.062349	.087989	.112928	.137185	.168236	.190981	.241422	.262166	.308169
		2	.115088	.146867	.176121	.203517	.237486	.261763	.314217	.335339	.381428
		3	.163482	.199135	.231040	.260306	.295930	.321012	.374311	.395474	.441135
		4	.209622	.248018	.281723	.312190	.348784	.374262	.427718	.448708	.493587
		5	.254273	.294671	.329608	.360828	.397923	.423513	.476633	.497295	.541123
6		.297813	.339659	.375405	.407037	.444274	.469758	.522158	.542365	.584923	
7		.340459	.383309	.419520	.451288	.488374	.513571	.564931	.584580	.625682	
8		.382348	.425824	.462209	.493877	.530561	.555316	.605359	.624359	.663841	
9		.423357	.467341	.503642	.535001	.571061	.595235	.643715	.661984	.699700	
10		.464187	.507952	.543933	.574794	.610027	.633495	.680186	.697649	.733464	
11		.504239	.547717	.583162	.613347	.647564	.670207	.714899	.731486	.765275	
12		.543755	.586679	.621378	.650718	.683739	.705447	.747938	.763583	.795229	
13		.582748	.624859	.658611	.686943	.718592	.739256	.779354	.793994	.823383	
14		.621223	.662264	.694870	.722032	.751138	.771651	.809168	.822741	.849766	
15		.659176	.698888	.730147	.755976	.784366	.802622	.837372	.849818	.874377	
16		.696591	.734708	.764414	.788745	.815244	.832136	.863931	.875193	.897185	
17		.733440	.769684	.797622	.820283	.844710	.860129	.888782	.898800	.918131	
18		.769682	.803755	.829696	.850505	.872669	.886502	.911823	.920540	.937125	
19		.805253	.836829	.860525	.879283	.898984	.911110	.932907	.940270	.954033	
20		.840061	.868772	.889944	.906436	.923453	.933748	.951829	.957789	.968677	
21		.873965	.899382	.917709	.931689	.945784	.954115	.968298	.972819	.980822	
22		.906742	.928338	.943437	.954621	.965530	.971765	.981907	.984981	.990173	
23		.937994	.955087	.966480	.974535	.981984	.986012	.992088	.993778	.996414	
24		.966903	.978522	.985597	.990160	.993954	.995784	.998148	.998696	.999420	
25	.991114	.995794	.997950	.998988	.999598	.999800	.999960	.999980	.999996		
26	1	.060024	.084753	.108830	.132275	.162372	.184359	.233318	.253487	.298296	
	2	.110832	.141532	.169831	.196370	.229325	.252912	.303981	.324587	.369643	
	3	.157474	.191971	.222894	.251303	.285945	.310376	.362415	.383125	.427910	
	4	.201962	.239174	.271902	.301540	.337208	.362090	.414428	.435033	.479197	
	5	.245030	.284249	.318242	.348679	.384923	.409980	.462142	.482488	.525766	
	6	.287044	.327743	.362595	.393506	.429982	.455004	.506619	.526586	.568763	
	7	.328210	.369968	.405354	.436475	.472905	.497720	.548478	.567965	.608859	
	8	.368663	.411124	.446767	.477875	.514019	.538479	.588116	.607034	.646486	
	9	.408490	.451341	.486998	.517896	.553545	.577518	.625799	.644069	.681936	
	10	.447751	.490711	.526162	.556672	.591632	.615000	.661709	.679260	.715411	
	11	.486488	.529295	.564337	.594292	.628388	.651038	.695975	.712740	.747055	
	12	.524728	.567135	.601576	.630820	.663881	.685710	.728686	.744601	.776966	
	13	.562489	.604258	.637911	.666292	.698157	.719064	.759896	.774902	.805207	
	14	.599780	.640676	.673358	.700728	.731238	.751123	.789636	.803674	.831816	
	15	.636600	.676389	.707918	.734129	.763126	.781892	.817911	.830923	.856802	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
26	16	.672940	.711385	.741576	.766478	.793804	.811352	.844703	.856634	.880151	
	17	.708782	.745637	.774300	.797740	.823230	.839461	.869971	.880765	.901827	
	18	.744099	.779105	.806040	.827856	.851342	.866153	.893645	.903247	.921764	
	19	.778848	.811727	.836718	.856740	.878044	.891327	.915621	.923978	.939867	
	20	.812568	.843412	.866226	.884268	.903198	.914842	.935755	.942814	.956004	
	21	.846367	.874030	.894404	.910260	.926610	.936494	.953843	.959559	.969998	
	22	.878912	.903385	.921014	.934452	.947992	.955992	.969604	.973941	.981617	
	23	.910384	.931168	.945688	.956437	.966917	.972904	.982641	.985591	.990573	
	24	.940403	.956846	.967801	.975542	.982699	.986569	.992403	.994026	.996557	
	25	.968180	.979356	.986158	.990545	.994190	.995949	.998221	.998747	.999443	
	26	.991454	.995956	.998029	.999027	.999614	.999807	.999962	.999981	.999996	
	27	1	.057867	.081746	.105019	.127703	.156809	.178180	.225736	.245360	.289029
		2	.106879	.136570	.163974	.189706	.221703	.244636	.294384	.314495	.358550
		3	.151891	.185304	.215300	.242898	.276606	.300416	.351240	.371509	.415433
		4	.194840	.230937	.262739	.291587	.326367	.350672	.401920	.422143	.465588
		5	.236434	.274536	.307626	.337311	.372730	.397266	.448476	.468504	.511210
		6	.277023	.316628	.350620	.380830	.416560	.441123	.491937	.511652	.553408
		7	.316808	.357516	.392098	.422583	.458356	.482782	.532903	.552206	.592835
		8	.355917	.397391	.432302	.462849	.498438	.522584	.571758	.590564	.629910
		9	.394437	.436382	.471392	.501814	.537018	.560761	.608761	.626994	.664919
		10	.432425	.474576	.509478	.539607	.574246	.597472	.644093	.661685	.698062
		11	.469924	.512037	.546640	.576320	.610226	.632830	.677882	.694767	.729480
		12	.506963	.548807	.582931	.612016	.645031	.666914	.710217	.726336	.759273
		13	.543559	.584914	.618387	.646736	.678708	.699776	.741159	.756454	.787511
		14	.579723	.620374	.653028	.680503	.711286	.731446	.770743	.785159	.814235
15		.615460	.655193	.686861	.713327	.742775	.761937	.798983	.812466	.839464	
16		.650764	.689366	.719880	.745201	.773167	.791240	.825876	.838371	.863197	
17		.685626	.722876	.752066	.776103	.802440	.819333	.851395	.862851	.885412	
18		.720026	.755695	.783383	.805993	.830549	.846168	.875492	.885856	.906064	
19		.753935	.787782	.813780	.834812	.857428	.871676	.898097	.907317	.925086	
20		.787311	.819073	.843181	.862473	.882981	.895757	.919104	.927129	.942379	
21		.820093	.849482	.871478	.888855	.907074	.918271	.938370	.945150	.957813	
22		.852195	.878881	.898515	.913783	.929515	.939020	.955696	.961186	.971211	
23		.883484	.907081	.924064	.937000	.950028	.957721	.970806	.974974	.982349	
24		.913751	.933783	.947767	.958113	.968196	.973955	.983317	.986153	.990942	
25		.942631	.958473	.969022	.976473	.983360	.987082	.992695	.994256	.996689	
26	.969363	.980128	.986677	.990900	.994409	.996101	.998288	.998794	.999464		
27	.991769	.996105	.998102	.999063	.999628	.999814	.999963	.999981	.999996		
28	1	.055859	.078945	.101466	.123436	.151657	.172400	.218629	.237735	.280314	
	2	.103198	.131943	.158507	.183478	.214569	.236881	.285367	.305004	.348097	
	3	.146690	.179083	.208205	.235035	.267853	.291068	.340721	.360564	.403643	
	4	.188204	.223245	.254170	.282264	.316193	.339941	.390127	.409975	.452703	
	5	.228419	.265461	.297691	.326653	.361275	.385301	.435572	.455280	.497399	
	6	.267675	.306237	.339402	.368933	.403933	.428042	.478050	.497503	.538808	
	7	.306167	.345867	.379670	.409531	.444652	.468685	.518144	.537247	.577564	
	8	.344017	.384535	.418728	.448715	.483740	.507561	.556227	.574897	.614076	
	9	.381310	.422367	.456731	.486668	.521407	.544897	.592551	.610716	.648621	
	10	.418103	.459448	.493789	.523516	.557796	.580848	.627295	.644888	.681397	
	11	.454437	.495842	.529979	.559350	.593013	.615526	.660585	.677545	.712543	
	12	.490341	.531590	.565355	.594232	.627130	.649012	.692512	.708780	.742162	
	13	.525834	.566723	.599956	.628206	.660197	.681358	.723138	.738659	.770324	
	14	.560930	.601259	.633803	.661301	.692247	.712602	.752503	.767225	.797076	
	15	.595633	.635207	.666910	.693529	.723296	.742759	.780629	.794500	.822443	
	16	.629944	.668567	.699275	.724891	.753344	.771833	.807520	.820490	.846434	
	17	.663857	.701330	.730889	.755376	.782380	.799809	.833163	.845182	.869037	
	18	.697359	.733479	.761729	.784957	.810374	.826658	.857526	.868544	.890225	
	19	.730429	.764982	.791758	.813593	.837280	.852331	.880560	.890527	.909948	
	20	.763039	.795799	.820923	.841224	.863031	.876758	.902188	.911056	.928135	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
28	21	.795147	.825866	.849149	.867763	.887532	.899839	.922309	.930028	.944689
	22	.826694	.855098	.876331	.893092	.910650	.921435	.940779	.947302	.959478
	23	.857595	.883372	.902318	.917039	.932199	.941353	.957405	.962688	.972330
	24	.887723	.910504	.926886	.939357	.951910	.959319	.971917	.975928	.983024
	25	.916875	.936206	.949692	.959664	.969380	.974928	.983943	.986673	.991283
	26	.944698	.959982	.970153	.977335	.983972	.987558	.992965	.994468	.996812
	27	.970461	.980843	.987159	.991229	.994612	.996243	.998350	.998838	.999483
	28	.992062	.996244	.998170	.999096	.999641	.999821	.999964	.999982	.999996
	29	1	.053986	.076329	.098145	.119445	.146832	.166982	.211954	.230566
2		.099762	.127620	.153392	.177644	.207878	.229600	.276882	.296062	.338216
3		.141834	.173265	.201561	.227662	.259633	.282279	.330806	.350234	.392488
4		.182003	.216048	.246139	.273515	.306628	.329840	.378993	.398472	.440488
5		.220929	.256964	.288372	.316641	.350492	.374023	.423369	.442757	.484282
6		.258936	.296502	.328873	.357748	.392034	.415696	.464897	.484083	.524915
7		.296214	.334946	.367996	.397247	.431723	.455362	.504142	.523033	.563003
8		.332883	.372476	.405966	.435400	.469858	.493345	.541468	.559984	.598945
9		.369022	.409211	.442936	.472384	.506641	.529862	.577120	.595191	.633011
10		.404690	.445238	.479012	.508323	.542216	.565068	.611272	.628834	.665395
11		.439925	.480617	.514270	.543306	.576685	.599072	.644050	.661043	.696235
12		.474758	.515391	.548765	.577395	.610120	.631955	.675545	.691914	.725634
13		.509208	.549591	.582536	.610637	.642574	.663773	.705820	.721512	.753664
14		.543289	.583237	.615608	.643061	.674082	.694564	.734919	.749885	.780374
15		.577008	.616341	.647995	.674685	.704663	.724349	.762870	.777059	.805795
16		.610368	.648906	.679704	.705514	.734327	.753138	.789681	.803047	.829942
17		.643367	.680929	.710729	.735545	.763066	.780926	.815350	.827845	.852814
18		.675996	.712398	.741056	.764760	.790864	.807693	.839857	.851434	.874393
19		.708242	.743294	.770660	.793131	.817689	.833406	.863167	.873779	.894645
20		.740083	.773585	.799504	.820616	.843493	.858016	.885227	.894827	.913520
21	.771492	.803229	.827535	.847154	.868208	.881451	.905962	.914503	.930944	
22	.802426	.832165	.854678	.872660	.891740	.903611	.925269	.932704	.946819	
23	.832827	.860309	.880831	.897016	.913960	.924361	.943007	.949290	.961016	
24	.862614	.887542	.905845	.920058	.934685	.943514	.958986	.964077	.973365	
25	.891664	.913684	.929506	.941544	.953655	.960801	.972946	.976812	.983649	
26	.919780	.938458	.951480	.961105	.970479	.975830	.984523	.987156	.991599	
27	.946622	.961384	.971204	.978136	.984540	.988000	.993215	.994665	.996526	
28	.971483	.981510	.987606	.991536	.994800	.996375	.998408	.998879	.999501	
29	.992335	.996373	.998233	.999127	.999653	.999827	.999965	.999983	.999997	
30	1	.052234	.073881	.095034	.115703	.142304	.161894	.205672	.223814	.264357
	2	.096547	.123570	.148596	.172169	.201590	.222751	.268882	.287624	.328876
	3	.137288	.167813	.195326	.220735	.251899	.274001	.321443	.340470	.381919
	4	.176197	.209299	.238598	.265288	.297619	.320314	.368465	.387583	.428895
	5	.213912	.248992	.279615	.307218	.340327	.363376	.411814	.430885	.471811
	6	.250748	.287364	.318971	.347212	.380805	.404027	.452424	.471340	.511682
	7	.286886	.324689	.357009	.385667	.419508	.442756	.490846	.509516	.549110
	8	.322442	.361142	.393947	.422837	.456727	.479875	.527431	.545778	.584479
	9	.357496	.396840	.429934	.458894	.492660	.515598	.562419	.580375	.618057
	10	.392103	.431867	.465073	.493959	.527445	.550076	.595981	.613484	.650031
	11	.426302	.466281	.499439	.528120	.561183	.583416	.628240	.645233	.680539
	12	.460122	.500126	.533086	.561440	.593947	.615699	.659287	.675717	.709683
	13	.493583	.533434	.566055	.593965	.625789	.646981	.689186	.705003	.737535
	14	.526701	.566225	.598371	.625727	.656748	.677302	.717984	.733140	.764147
	15	.559483	.598512	.630052	.656745	.686846	.706689	.745711	.760159	.789556
	16	.591935	.630304	.661107	.687030	.716095	.735153	.772383	.786077	.813779
	17	.624056	.661599	.691536	.716582	.744496	.762697	.798002	.810898	.836822
	18	.655841	.692392	.721330	.745392	.772039	.789311	.822558	.834611	.858677
	19	.687283	.722668	.750474	.773442	.798704	.814972	.846028	.857194	.879323
	20	.718365	.752406	.778941	.800701	.824456	.839644	.868374	.878609	.898721

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
30	21	.749067	.781576	.806692	.827126	.849246	.863277	.889541	.898800	.916818
	22	.779360	.810135	.833674	.852655	.873006	.885797	.909454	.917692	.933541
	23	.809293	.838023	.859815	.877205	.895644	.907108	.928010	.935182	.948791
	24	.838540	.865152	.885013	.900662	.917033	.927077	.945072	.951134	.962441
	25	.867291	.891423	.909126	.922864	.936995	.945520	.960454	.965366	.974325
	26	.895237	.916645	.931944	.943578	.955278	.962178	.973902	.977633	.984230
	27	.922489	.940556	.953145	.962447	.971502	.976670	.985063	.987604	.991893
	28	.948416	.962692	.972184	.978883	.985070	.988417	.993449	.994849	.997032
	29	.972437	.982131	.988024	.991822	.994976	.996497	.998462	.998917	.999518
	30	.992589	.998494	.998292	.999156	.999665	.999833	.999967	.999983	.999997
31	1	.050593	.071585	.092114	.112189	.138046	.157105	.199750	.217444	.257036
	2	.093533	.119769	.144090	.167021	.195669	.216297	.261328	.279649	.320032
	3	.133024	.162693	.189464	.214216	.244610	.266191	.312590	.331227	.371892
	4	.170750	.202958	.231503	.257539	.289119	.311317	.358496	.377261	.417878
	5	.207327	.241497	.271371	.298336	.330727	.353309	.400858	.419615	.459541
	6	.243060	.278768	.309644	.337272	.370190	.392982	.440584	.459227	.499069
	7	.278124	.315037	.346653	.374732	.407951	.430810	.478206	.496649	.535844
	8	.312634	.350471	.382610	.410964	.442492	.467098	.514068	.532235	.570643
	9	.346664	.385187	.417660	.446134	.479404	.502052	.548404	.566228	.603727
	10	.380269	.419264	.451904	.480361	.513424	.535820	.581380	.598802	.635279
	11	.413488	.452760	.485416	.513730	.546451	.568508	.613118	.630083	.665436
	12	.446350	.485720	.518249	.546304	.578557	.600196	.643707	.660165	.694297
	13	.478875	.518174	.550443	.578130	.609795	.630940	.673213	.689115	.721936
	14	.511077	.550144	.582027	.609241	.640293	.660783	.701684	.716984	.748407
	15	.542968	.581645	.613018	.639658	.669808	.689752	.729152	.743806	.773748
16	.574552	.612687	.643428	.669394	.698624	.717864	.755637	.769602	.797582	
17	.605832	.643271	.673261	.698454	.726657	.745125	.781147	.794379	.821119	
18	.636895	.673395	.702513	.726835	.753993	.771531	.805678	.818137	.843157	
19	.667466	.703051	.731174	.754524	.780349	.797070	.829216	.840859	.864085	
20	.697804	.732223	.759225	.781500	.805971	.821714	.851736	.862520	.883876	
21	.727805	.760890	.786640	.807733	.830734	.845428	.873196	.883080	.902490	
22	.757448	.789020	.813378	.833176	.854588	.868158	.893541	.902482	.919872	
23	.786702	.816571	.839389	.857771	.877465	.889834	.912695	.920650	.935948	
24	.815530	.843484	.864599	.881436	.899275	.910360	.930557	.937483	.950622	
25	.843875	.869680	.888911	.904058	.919893	.929604	.946993	.952848	.963766	
26	.871660	.895044	.912186	.925480	.939147	.947389	.961821	.966566	.975219	
27	.898770	.919410	.934220	.945476	.956790	.963462	.974793	.978398	.984771	
28	.925021	.942516	.954700	.963698	.972456	.977453	.985567	.988023	.992167	
29	.950094	.963914	.973100	.979580	.985564	.988797	.993667	.995020	.997130	
30	.973328	.982712	.988415	.992089	.995141	.996612	.998512	.998953	.999534	
31	.992828	.996607	.998347	.999184	.999676	.999838	.999968	.999984	.999997	
32	1	.049051	.069428	.089368	.108881	.134036	.152591	.194158	.211425	.250105
	2	.090701	.116195	.139849	.162171	.190086	.210204	.254183	.272100	.311644
	3	.129017	.157875	.183943	.208069	.237728	.258811	.304205	.322467	.362368
	4	.165629	.196989	.224816	.250277	.281088	.302806	.349043	.367464	.407399
	5	.201134	.234439	.263597	.289948	.321647	.343777	.390457	.408905	.448634
	6	.235828	.270670	.300842	.327879	.360142	.382514	.429330	.447702	.487034
	7	.269880	.305938	.336874	.364392	.397002	.419478	.466178	.484389	.523168
	8	.303401	.340408	.371899	.399728	.432499	.454963	.501337	.519313	.557402
	9	.336465	.374191	.406057	.434049	.466822	.489173	.535033	.552711	.589990
	10	.369124	.407365	.439447	.467471	.500103	.522251	.567430	.584753	.621113
	11	.401416	.439989	.472140	.500078	.532438	.554301	.598648	.615562	.650904
	12	.433369	.472104	.504191	.531931	.563901	.585402	.628774	.645231	.679461
	13	.465005	.503742	.535639	.563078	.594544	.615612	.657875	.673828	.706860
	14	.496339	.534925	.566513	.593551	.624405	.644971	.686000	.701405	.733154
	15	.527381	.565669	.596832	.623374	.653513	.673511	.713182	.727997	.758384

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
32	16	.558137	.595985	.626609	.652563	.681885	.701251	.739445	.753629	.782576	
	17	.588611	.625878	.655851	.681125	.709530	.728200	.764799	.778311	.805743	
	18	.618804	.655347	.684559	.709060	.736448	.754359	.789248	.802049	.827891	
	19	.648711	.684387	.712725	.736362	.762632	.779722	.812783	.824833	.849012	
	20	.678325	.712989	.740338	.763016	.788067	.804270	.835387	.846646	.869089	
	21	.707637	.741137	.767378	.789000	.812727	.827978	.857031	.867459	.888094	
	22	.736631	.768808	.793817	.814281	.836575	.850806	.877674	.887230	.905986	
	23	.765284	.795971	.819615	.838815	.859562	.872701	.897259	.905903	.922708	
	24	.793570	.822583	.844722	.862543	.881620	.893594	.915710	.923402	.938187	
	25	.821449	.848588	.869067	.885384	.902661	.913390	.932929	.939626	.952325	
	26	.848868	.873908	.892553	.907228	.922562	.931961	.948783	.954445	.965000	
	27	.875750	.898431	.915045	.927924	.941156	.949134	.963096	.967685	.976052	
	28	.901984	.921997	.936347	.947249	.958204	.964661	.975625	.979112	.985276	
	29	.927392	.944351	.956155	.964869	.973349	.978185	.986037	.988414	.992424	
	30	.951666	.965059	.973957	.980233	.986027	.989156	.993870	.995181	.997223	
	31	.974164	.983256	.988781	.992339	.995294	.996719	.998560	.998986	.999549	
	32	.993051	.996713	.998398	.999209	.999686	.999843	.999969	.999984	.999997	
	33	1	.047601	.067397	.086781	.105763	.130251	.148329	.188869	.205729	.243536
		2	.088036	.112828	.135851	.157594	.184810	.204444	.247416	.264945	.303679
		3	.125244	.153334	.178734	.202264	.231221	.251826	.296254	.314152	.353311
		4	.160806	.191360	.218503	.243316	.273487	.294744	.340069	.358155	.397420
		5	.195300	.227780	.256253	.282016	.313048	.334740	.380572	.398716	.437852
		6	.229012	.263026	.292523	.318990	.350618	.372580	.418622	.436723	.475543
		7	.262109	.297347	.327627	.354601	.386615	.408713	.454721	.472697	.511048
		8	.294696	.330902	.361764	.389081	.421303	.443426	.489195	.506975	.544723
		9	.326845	.363799	.395071	.422589	.454865	.476917	.522266	.539788	.576817
		10	.358608	.396116	.427645	.455238	.487432	.509324	.554094	.571302	.607506
		11	.390722	.427908	.459556	.487111	.519098	.540752	.584795	.601639	.636921
		12	.421115	.459217	.490856	.518267	.549933	.571277	.614457	.630889	.665159
		13	.451907	.490074	.521585	.548755	.579991	.600956	.643146	.659121	.692296
14		.482414	.520503	.551772	.578606	.609312	.629832	.670911	.686388	.718386	
15		.512647	.550519	.581438	.607847	.637923	.657937	.697787	.712725	.743470	
16		.542614	.580135	.610597	.636493	.665845	.685291	.723800	.738159	.767576	
17		.572317	.609357	.639258	.664556	.693088	.711907	.748964	.762707	.790723	
18		.601760	.638186	.667423	.692037	.719658	.737790	.773285	.786373	.812918	
19		.630941	.666621	.695090	.718934	.745550	.762937	.796761	.809157	.834160	
20		.659854	.694656	.722251	.745238	.770755	.787337	.819380	.831046	.854438	
21		.688493	.722278	.748892	.770934	.795255	.810971	.841123	.852022	.873733	
22		.716847	.749473	.774992	.795997	.819023	.833812	.861958	.872052	.892014	
23		.744899	.776215	.800524	.820395	.842023	.855819	.881844	.891094	.909238	
24		.772629	.802476	.825447	.844083	.864205	.876940	.900724	.909091	.925349	
25		.800009	.828212	.849712	.867004	.885501	.897105	.918523	.925968	.940273	
26		.827000	.853369	.873248	.889077	.905826	.916222	.935144	.941626	.953915	
27		.853550	.877870	.895963	.910196	.925059	.934165	.950457	.955937	.966153	
28		.879587	.901607	.917725	.930212	.943037	.950766	.964289	.968731	.976830	
29		.905000	.924423	.938342	.948911	.959528	.965784	.976404	.979781	.985749	
30		.929618	.946077	.957519	.965967	.974185	.978871	.986478	.988780	.992664	
31	.953142	.966133	.974761	.980845	.986461	.989494	.994061	.995331	.997310		
32	.974949	.983767	.989124	.992574	.995439	.996820	.998604	.999017	.999563		
33	.993261	.996812	.998447	.999233	.999695	.999848	.999970	.999985	.999997		
34	1	.046234	.065481	.084340	.102818	.126674	.144298	.183860	.200330	.237301	
	2	.085522	.109650	.132074	.153268	.179819	.198989	.240997	.258153	.296106	
	3	.121685	.149046	.173811	.196773	.225059	.245205	.288703	.306249	.344689	
	4	.156255	.186043	.212534	.236775	.266283	.287096	.331538	.349297	.387906	
	5	.189794	.221488	.249305	.274503	.304892	.326159	.371166	.389011	.427560	



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
34	6	.222579	.255800	.284649	.310566	.341579	.363141	.408422	.426255	.464562
	7	.254772	.289222	.318869	.345315	.376748	.398476	.443797	.461537	.499450
	8	.286475	.321908	.352161	.378978	.410660	.432445	.477606	.495185	.532575
	9	.317758	.353964	.384657	.411708	.443491	.465240	.510067	.527424	.564177
	10	.348672	.385464	.416450	.443615	.475368	.496998	.541335	.559417	.594431
	11	.379253	.416463	.447611	.474781	.506384	.527819	.571526	.588283	.623464
	12	.409528	.447003	.478190	.505265	.536609	.557780	.600725	.617112	.651372
	13	.439118	.477114	.508228	.535114	.566096	.586936	.628998	.644971	.678231
	14	.469239	.506819	.537752	.564360	.594884	.615332	.656394	.671914	.704094
	15	.498701	.536137	.566785	.593031	.623002	.642999	.682950	.697978	.729004
	16	.527914	.565077	.595342	.621142	.650472	.669959	.708693	.723190	.752991
	17	.556890	.593650	.623433	.648707	.677306	.696228	.733638	.747569	.776075
	18	.585605	.621857	.651062	.675731	.703512	.721812	.757796	.771124	.798268
	19	.614086	.649699	.678230	.702213	.729090	.746714	.781168	.793858	.819572
	20	.642322	.677173	.704932	.728150	.754035	.770926	.803748	.815764	.839981
21	.670308	.704271	.731159	.753529	.778333	.794437	.825521	.836829	.859483	
22	.698035	.730980	.756895	.778335	.801967	.817224	.846467	.857030	.878056	
23	.725491	.757285	.782120	.802541	.824907	.839260	.866554	.876335	.895666	
24	.752662	.783161	.806805	.826117	.847118	.860504	.885737	.894700	.912272	
25	.779577	.808577	.830912	.849016	.868549	.880904	.903962	.912069	.927815	
26	.806057	.833494	.854389	.871183	.889135	.900391	.921154	.928367	.942223	
27	.832215	.857856	.877170	.892538	.908791	.918874	.937217	.943498	.955401	
28	.857951	.881590	.899163	.912979	.927399	.936231	.952024	.957335	.967232	
29	.883194	.904589	.920240	.932359	.944801	.952297	.965406	.969712	.977560	
30	.907836	.926702	.940214	.950477	.960771	.966838	.977135	.980408	.986192	
31	.931171	.947690	.958800	.966998	.974970	.979516	.986892	.989124	.992889	
32	.954530	.967143	.975517	.981470	.986869	.989811	.994241	.995472	.997391	
33	.975698	.984248	.989447	.992795	.995575	.996915	.998645	.999046	.999576	
34	.993458	.996906	.998493	.999256	.999704	.999853	.999971	.999985	.999997	
35	1	.044943	.063671	.082032	.100032	.123288	.140479	.179109	.195206	.231375
	2	.093148	.106646	.128501	.149177	.175090	.193817	.234901	.251698	.288898
	3	.118323	.144992	.169152	.191571	.219215	.238922	.281525	.298731	.336470
	4	.151955	.181012	.206881	.230575	.259447	.279832	.323419	.340861	.378828
	5	.194590	.215533	.242722	.267378	.297146	.318003	.362206	.379758	.417728
	6	.216457	.248959	.277185	.302571	.332988	.354161	.398697	.416265	.454058
	7	.247833	.281527	.310564	.336498	.367365	.388730	.433371	.450875	.488344
	8	.278698	.313387	.343050	.369379	.400531	.421983	.466535	.483908	.520928
	9	.309160	.344642	.374770	.401363	.432658	.454106	.498401	.515586	.552044
	10	.339268	.375363	.405818	.432559	.463870	.485234	.529121	.546066	.581863
	11	.369058	.405607	.436260	.463045	.494257	.515465	.558809	.575465	.610510
	12	.398556	.435412	.466147	.492880	.523889	.544874	.587549	.603873	.638081
	13	.427784	.464809	.495519	.522110	.552818	.573517	.615405	.631355	.664648
	14	.456756	.493821	.524404	.550769	.581084	.601436	.642427	.657965	.690268
	15	.485483	.522466	.552824	.578882	.608715	.628666	.668653	.683741	.714982
	16	.513975	.550757	.580796	.606469	.635734	.655228	.694109	.708711	.738827
	17	.542237	.578707	.608330	.633542	.662156	.681140	.718815	.732896	.761810
	18	.570272	.606305	.635432	.660109	.687989	.706411	.742782	.756308	.783959
	19	.598082	.633570	.662105	.686171	.713238	.731046	.766015	.778952	.805276
	20	.625664	.660493	.688347	.711729	.737899	.755040	.788511	.800826	.825760
	21	.653017	.687071	.714151	.736773	.761964	.778387	.810263	.821922	.845402
	22	.680133	.713294	.739508	.761292	.785421	.801072	.831254	.842223	.864186
	23	.707005	.739150	.764400	.785268	.808248	.823073	.851461	.861706	.882089
	24	.733621	.764621	.788808	.809676	.830417	.844359	.870851	.880337	.899078
	25	.759965	.789685	.812701	.831483	.851892	.864892	.889381	.898073	.915108
	26	.786017	.814312	.836043	.853645	.872622	.884619	.906995	.914857	.930122
	27	.811749	.838460	.858783	.875106	.892545	.903472	.923619	.930615	.944048
	28	.837125	.862077	.880856	.895790	.911574	.921367	.939161	.945253	.956795
	29	.862095	.885089	.902172	.915594	.929597	.938170	.953495	.958646	.968244
	30	.886590	.907396	.922606	.934378	.946459	.953735	.966456	.970633	.978245

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
35	31	.910508	.928848	.941977	.951939	.961939	.967829	.977821	.980997	.986609
	32	.933685	.949213	.960007	.967969	.975709	.980127	.987281	.989447	.993101
	33	.955838	.968094	.976229	.981962	.987253	.990109	.994410	.995605	.997468
	34	.976385	.984701	.989751	.993003	.995703	.997004	.998685	.999074	.999598
	35	.993645	.996994	.998536	.999277	.999713	.999857	.999971	.999986	.999997
36	1	.043722	.061958	.079847	.097394	.120077	.136857	.174596	.190336	.225736
	2	.080903	.103803	.125116	.145289	.170602	.188906	.229104	.245556	.282029
	3	.115141	.141152	.164735	.186637	.213665	.232951	.274691	.291569	.328629
	4	.147885	.176246	.201520	.224690	.252951	.272923	.315684	.332816	.370157
	5	.179663	.209889	.236476	.260611	.289781	.310240	.353661	.370927	.408326
	6	.210737	.242473	.270100	.294975	.324814	.345608	.389415	.406721	.444004
	7	.241261	.274229	.302677	.328116	.358432	.379441	.423411	.440679	.477702
	8	.271330	.305303	.334393	.360248	.390881	.412003	.455948	.473116	.509754
	9	.301013	.335794	.365373	.391518	.422330	.443478	.487236	.504244	.540391
	10	.330355	.365774	.395707	.422030	.452900	.473996	.517421	.534220	.569577
	11	.359393	.395296	.425460	.451861	.482679	.503654	.546614	.563159	.598038
	12	.388153	.424398	.454684	.481071	.511736	.532525	.574900	.591146	.625266
	13	.416654	.453112	.483415	.509703	.540121	.560664	.602341	.618249	.651533
	14	.444912	.481460	.511683	.537791	.567875	.588114	.628986	.644520	.676896
	15	.472938	.509460	.539511	.565362	.595026	.614909	.654875	.669998	.701396
	16	.500742	.537124	.566914	.592435	.621599	.641072	.680034	.694711	.725066
	17	.528329	.564463	.593905	.619023	.647608	.666622	.704484	.718683	.747530
	18	.555704	.591482	.620491	.645136	.673064	.691569	.728238	.741926	.770003
	19	.582868	.618184	.646676	.670778	.697972	.715919	.751305	.764449	.791293
	20	.609821	.644569	.672459	.695949	.722334	.739674	.773683	.786252	.811804
	21	.636567	.670634	.697838	.720646	.746143	.762828	.795370	.807337	.831530
	22	.663086	.696373	.722805	.744859	.769392	.785371	.816354	.827676	.850462
	23	.689387	.721778	.747348	.768576	.792064	.807288	.836618	.847269	.868581
	24	.715456	.746834	.771452	.791777	.814140	.828555	.856137	.866084	.885862
	25	.741281	.771525	.795094	.814438	.835589	.849143	.874878	.884087	.902271
	26	.766848	.795827	.818246	.836526	.856375	.869011	.892797	.901236	.917765
	27	.792134	.819711	.840871	.857998	.876450	.888109	.909840	.917473	.932285
	28	.817115	.843137	.862919	.878797	.895750	.906368	.925935	.932726	.945762
	29	.841755	.866053	.884326	.898349	.914192	.923702	.940988	.946902	.958104
	30	.866004	.888388	.905006	.918056	.931666	.939995	.954878	.959879	.969195
	31	.889795	.910042	.924835	.936280	.948020	.955089	.967444	.971500	.978889
	32	.913028	.930872	.943638	.953322	.963040	.968762	.978468	.981552	.987001
	33	.935546	.950650	.961145	.968884	.976406	.980693	.987648	.989752	.993300
	34	.957074	.968992	.976901	.982474	.987615	.990390	.994569	.995731	.997540
	35	.977042	.985129	.990039	.993200	.995824	.997089	.998722	.999100	.999600
36	.993821	.997078	.998576	.999297	.999721	.999861	.999972	.999986	.999997	
37	1	.042566	.060335	.077775	.094891	.117030	.133417	.170304	.185703	.220364
	2	.078775	.101106	.121905	.141603	.166338	.184237	.223584	.239704	.275476
	3	.112126	.137509	.160542	.181949	.208389	.227270	.268179	.284738	.321139
	4	.144026	.171725	.196429	.219096	.246770	.266345	.308306	.325137	.361866
	5	.174991	.204532	.230543	.254176	.282769	.302843	.345504	.362490	.399328
	6	.205275	.236315	.263366	.287748	.317027	.337453	.380547	.397595	.434371
	7	.235027	.267298	.295179	.320137	.349917	.370578	.413887	.430922	.467496
	8	.264341	.297623	.326159	.351552	.381678	.402476	.445818	.462777	.499028
	9	.293282	.327386	.356431	.382136	.412474	.433325	.476542	.493370	.529192
	10	.321897	.356658	.386081	.411992	.442425	.463252	.506204	.522852	.558151
	11	.350219	.385490	.415174	.441194	.471616	.492353	.534913	.551336	.586025
	12	.378274	.413921	.443760	.469800	.500114	.520699	.562750	.578970	.612907
	13	.406083	.441980	.471875	.497853	.527971	.548345	.589779	.605631	.638868
	14	.433660	.469691	.499549	.525389	.555224	.575334	.616048	.631560	.663964
	15	.461017	.497070	.526803	.552432	.581905	.601699	.641595	.656732	.688237

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
37	16	.488164	.524133	.553656	.579003	.608036	.627464	.666449	.681178	.711719	
	17	.515105	.550887	.580119	.605116	.633634	.652649	.690632	.704920	.734437	
	18	.541847	.577340	.606200	.630780	.658710	.677265	.714157	.727974	.756405	
	19	.568391	.603496	.631905	.656003	.683273	.701320	.737035	.750350	.777637	
	20	.594739	.629356	.657235	.680786	.707324	.724818	.759268	.772051	.798136	
	21	.620888	.654919	.682189	.705127	.730861	.747756	.780856	.793077	.817901	
	22	.646838	.680180	.706761	.729021	.753878	.770129	.801791	.813419	.836525	
	23	.672583	.705134	.730945	.752458	.776365	.791923	.822061	.833066	.855197	
	24	.698117	.729770	.754727	.775424	.798305	.813123	.841647	.851998	.872697	
	25	.723430	.754076	.778091	.797900	.819677	.833705	.860525	.870190	.889399	
	26	.748511	.778033	.801015	.819861	.840452	.853639	.878659	.887608	.905268	
	27	.773345	.801619	.823471	.841275	.860594	.872885	.896008	.904207	.920260	
	28	.797911	.824805	.845421	.862097	.880053	.891392	.912517	.919932	.934318	
	29	.822184	.847550	.866819	.882775	.898769	.909095	.928113	.934712	.947373	
	30	.846128	.869806	.887600	.901734	.916659	.925907	.942708	.948454	.959335	
	31	.869697	.891502	.907680	.920379	.933617	.941715	.956181	.961041	.970091	
	32	.892823	.912541	.926939	.938074	.949493	.956366	.968375	.972317	.979497	
	33	.915411	.932783	.945207	.954628	.964079	.969643	.979078	.982075	.987370	
	34	.937306	.952008	.962220	.969748	.977064	.981232	.987994	.990039	.993488	
	35	.958242	.969841	.977535	.982956	.987957	.990656	.994720	.995849	.997608	
	36	.977665	.985534	.990310	.993385	.995938	.997168	.998757	.999125	.999561	
	37	.993987	.997156	.998615	.999316	.999728	.999865	.999973	.999986	.999997	
	38	1	.041469	.058795	.075808	.092513	.114133	.130146	.166218	.181289	.215240
		2	.076757	.098547	.118854	.138099	.162282	.179793	.218323	.234123	.269218
		3	.109265	.134050	.156557	.177491	.203366	.221858	.261965	.278218	.313579
		4	.140364	.167428	.191588	.213773	.240882	.260074	.301260	.317801	.353933
		5	.170556	.199441	.224899	.248049	.276086	.295787	.337710	.354422	.390709
		6	.200089	.230462	.256958	.280864	.309602	.329670	.372066	.388861	.425136
		7	.229107	.260707	.288040	.312534	.341792	.362114	.404773	.421577	.457702
		8	.257702	.290317	.318318	.343262	.372891	.393371	.436116	.452867	.488725
		9	.285937	.319386	.347911	.373188	.403060	.423615	.466292	.482938	.518424
		10	.313858	.347982	.376906	.402412	.432412	.452971	.495445	.511936	.546960
		11	.341498	.376154	.405366	.431008	.461035	.481531	.523679	.539973	.574450
		12	.368883	.403942	.433339	.459032	.488992	.509367	.551075	.567132	.600985
		13	.396031	.431374	.460861	.486527	.516334	.536532	.577695	.593479	.626636
		14	.422958	.458474	.487962	.513527	.543099	.563068	.603589	.619063	.651458
		15	.449676	.485258	.514663	.540057	.569319	.589009	.628793	.643925	.675492
16		.476193	.511740	.540982	.566138	.595015	.614379	.653337	.668096	.698773	
17		.502517	.537930	.566932	.591786	.620206	.639198	.677244	.691597	.721326	
18		.528651	.563837	.592521	.617009	.644904	.663479	.700528	.714446	.743168	
19		.554600	.589463	.617756	.641817	.669117	.687232	.723200	.736655	.764314	
20		.580365	.614812	.642639	.666211	.692850	.710461	.745267	.758229	.784769	
21		.605945	.639884	.667171	.690193	.716103	.733166	.766728	.779169	.804534	
22		.631339	.664675	.691349	.713758	.738871	.755344	.787581	.799472	.823608	
23		.656545	.689183	.715167	.736902	.761149	.776987	.807816	.819128	.841981	
24		.681556	.713399	.738616	.759612	.782923	.798082	.827420	.838124	.859638	
25		.706367	.737313	.761683	.781875	.804178	.818612	.846374	.856440	.876561	
26		.730967	.760912	.784352	.803671	.824892	.838553	.864651	.874050	.892721	
27		.755347	.784179	.806601	.824975	.845034	.857873	.882218	.890919	.908085	
28		.779489	.807090	.828402	.845754	.864570	.876535	.899031	.907004	.922607	
29		.803375	.829617	.849718	.865966	.883451	.894488	.915038	.922249	.936232	
30		.826979	.851722	.870502	.885558	.901617	.911667	.930167	.936583	.948892	
31		.850246	.873354	.890693	.904459	.918988	.927987	.944330	.949918	.960496	
32		.873191	.894446	.910207	.922573	.935459	.943339	.957411	.962137	.970936	
33		.895690	.914905	.928929	.939770	.950884	.957572	.969255	.973088	.980070	
34		.917667	.934592	.946691	.955863	.965061	.970475	.979654	.982569	.987720	
35		.938573	.953294	.963237	.970565	.977686	.981742	.988322	.990311	.993666	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
38	36	.959348	.970645	.978136	.983414	.988281	.990908	.994862	.995961	.997673
	37	.978254	.985917	.990568	.993561	.996046	.997244	.998790	.999148	.999621
	38	.994145	.997231	.998651	.999334	.999736	.999868	.999974	.999987	.999997
39	1	.040428	.057332	.073938	.090251	.111376	.127030	.167322	.177079	.210347
	2	.074839	.096113	.115952	.134764	.158418	.175557	.213302	.228795	.263235
	3	.106546	.130760	.152765	.173245	.198578	.216696	.256031	.271987	.307128
	4	.136883	.163347	.186980	.208702	.235267	.254089	.294527	.310784	.346334
	5	.166340	.194597	.219523	.242210	.269709	.289050	.330254	.346699	.382447
	6	.195158	.224890	.250853	.274299	.302513	.322234	.363949	.380495	.416275
	7	.223477	.254432	.281236	.305280	.334032	.354022	.396043	.412618	.448297
	8	.251387	.283360	.310841	.335350	.364494	.384661	.426816	.443360	.478821
	9	.278950	.311765	.339786	.364644	.394057	.414322	.456460	.472921	.508065
	10	.306210	.339714	.368153	.393267	.422833	.443124	.485116	.501447	.536183
	11	.333199	.367256	.396005	.421274	.450906	.471161	.512885	.529045	.563292
	12	.359943	.394428	.423388	.448736	.478339	.498500	.539849	.555798	.589482
	13	.386461	.421259	.450340	.475691	.505181	.525195	.566067	.581770	.614820
	14	.412767	.447771	.476888	.502172	.531471	.551288	.591588	.607011	.639362
	15	.438873	.473983	.503055	.528205	.557423	.576811	.616449	.631560	.663150
16	.464788	.499907	.528857	.553809	.582509	.601791	.640681	.655449	.686218	
17	.490520	.525554	.554309	.579001	.607298	.626246	.664304	.678701	.708597	
18	.516072	.550932	.579419	.603792	.631619	.650191	.687338	.701333	.730290	
19	.541450	.576045	.604194	.628189	.655483	.673636	.709792	.723359	.751327	
20	.566653	.600898	.628639	.652198	.678894	.696587	.731674	.744785	.771712	
21	.591695	.625491	.652754	.675819	.701854	.719047	.752988	.765615	.791447	
22	.616542	.649822	.676539	.699052	.724361	.741014	.773731	.785848	.810533	
23	.641225	.673890	.699989	.721892	.746412	.762482	.793899	.805477	.828963	
24	.665728	.697688	.723099	.744332	.767997	.783443	.813481	.824494	.846728	
25	.690047	.721210	.745857	.766361	.789105	.803883	.832462	.842882	.863812	
26	.714175	.744444	.768253	.787963	.809716	.823785	.850824	.860622	.880195	
27	.738103	.767377	.790268	.809119	.829811	.843123	.868538	.877686	.895848	
28	.761819	.789997	.811881	.829804	.849359	.861868	.885572	.894040	.910738	
29	.785308	.812266	.833064	.849986	.868325	.879981	.901883	.909641	.924819	
30	.808550	.834172	.853781	.869623	.886661	.897411	.917417	.924434	.938038	
31	.831521	.855670	.873987	.888663	.904309	.914096	.932106	.938350	.950324	
32	.854187	.876713	.893620	.907036	.921190	.929954	.945863	.951301	.961593	
33	.876503	.897235	.912599	.924650	.937201	.944875	.959573	.963173	.971735	
34	.898407	.917144	.930813	.941376	.952201	.958713	.970086	.973817	.980612	
35	.919805	.936306	.948096	.957032	.965991	.971263	.980199	.983037	.988050	
36	.940553	.954512	.964201	.971340	.978275	.982225	.988632	.990569	.993835	
37	.960397	.971406	.978706	.983847	.988588	.991146	.994997	.996067	.997734	
38	.978813	.986280	.990811	.993728	.996149	.997315	.998821	.999170	.999631	
39	.994295	.997302	.998686	.999351	.999742	.999871	.999974	.999987	.999997	
40	1	.039437	.055939	.072158	.088097	.108749	.124060	.158605	.173059	.205671
	2	.073015	.093797	.113188	.131586	.154733	.171515	.208507	.223702	.257510
	3	.103958	.127628	.149152	.169197	.194010	.211768	.250358	.266026	.300565
	4	.133571	.159449	.182587	.203865	.229907	.248372	.288085	.304067	.339049
	5	.162328	.189982	.214398	.236637	.263619	.282611	.323117	.339301	.374520
	6	.190464	.219580	.245031	.268033	.295738	.315122	.356173	.372474	.407767
	7	.218117	.248451	.274745	.298353	.326612	.346279	.387674	.404023	.439258
	8	.245374	.276727	.303706	.327790	.356462	.376323	.417895	.434232	.469297
	9	.272295	.304497	.332028	.356478	.385442	.405419	.447023	.463298	.498094
	10	.298924	.331827	.359792	.384512	.413661	.433687	.475194	.491362	.525801
	11	.325292	.358765	.387060	.411962	.441202	.461215	.502510	.518529	.552533
	12	.351424	.385347	.413877	.438883	.468127	.488071	.529049	.544882	.578378
	13	.377339	.411601	.440280	.465316	.494484	.514308	.554870	.570484	.603403
	14	.403051	.437550	.466295	.491295	.520311	.539968	.580023	.595383	.627662
	15	.428572	.463211	.491946	.516844	.545639	.565081	.604543	.619619	.651198

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
40	16	.453911	.488598	.517248	.541985	.570490	.589675	.628460	.643223	.674045	
	17	.479075	.513721	.542217	.566733	.594883	.613769	.651798	.666219	.696228	
	18	.504069	.538588	.566861	.591099	.618832	.637378	.674574	.688625	.717767	
	19	.528897	.563205	.591188	.615093	.642347	.660513	.696800	.710455	.738678	
	20	.553561	.587576	.615203	.638720	.665434	.683182	.718485	.731717	.758570	
	21	.578064	.611703	.638908	.661987	.688096	.705387	.739633	.752416	.778649	
	22	.602404	.635585	.662304	.684880	.710335	.727129	.760246	.772554	.797715	
	23	.626580	.659221	.685387	.707412	.732146	.748405	.780319	.792127	.816167	
	24	.650590	.682606	.708153	.729571	.753524	.769209	.799847	.811128	.833598	
	25	.674430	.705736	.730596	.751350	.774460	.789531	.818817	.829546	.851195	
	26	.698095	.728603	.752705	.772737	.794940	.809357	.837215	.847365	.867743	
	27	.721578	.751195	.774468	.793718	.814947	.828668	.855021	.864564	.883619	
	28	.744869	.773500	.795866	.814271	.834460	.847440	.872206	.881116	.898797	
	29	.767957	.795499	.816879	.834373	.853448	.865643	.888739	.896986	.913241	
	30	.790827	.817171	.837478	.853991	.871876	.883238	.904577	.912132	.926908	
	31	.813460	.838488	.857630	.873085	.889699	.900176	.919666	.926500	.939743	
	32	.835831	.859413	.877288	.891603	.906857	.916396	.933941	.940021	.951679	
	33	.857907	.879899	.896394	.909478	.923275	.931815	.947313	.952609	.962630	
	34	.879646	.899880	.914867	.926617	.938851	.946329	.959674	.964154	.972491	
	35	.900985	.919268	.932599	.942898	.953449	.959794	.970874	.974508	.981125	
	36	.921935	.937937	.949430	.958140	.966872	.972009	.980716	.983481	.988363	
	37	.942053	.955668	.965115	.972075	.978834	.982683	.988925	.990813	.993995	
	38	.961393	.972130	.979246	.984258	.988879	.991372	.995125	.996168	.997792	
	39	.979344	.986625	.991043	.993886	.996246	.997383	.998851	.999191	.999640	
	40	.994437	.997369	.998718	.999367	.999749	.999875	.999975	.999987	.999997	
	41	1	.038494	.054613	.070461	.086044	.106243	.121226	.155053	.169218	.201198
		2	.071277	.091590	.110553	.128554	.151216	.167655	.203921	.218830	.252028
		3	.101494	.124642	.145705	.165333	.189646	.207058	.244930	.260320	.294275
		4	.130415	.155738	.178395	.199246	.224784	.242905	.281916	.297631	.332060
		5	.158504	.185580	.209505	.231315	.257795	.276450	.316278	.332208	.366908
		6	.185990	.214515	.239471	.262045	.289258	.308314	.348717	.364779	.399592
		7	.213007	.242744	.268544	.291730	.319512	.338864	.379646	.395772	.430567
		8	.239640	.270396	.296888	.320561	.348772	.368333	.409331	.425464	.460131
		9	.265949	.297559	.324613	.348665	.377190	.396884	.437957	.454046	.488490
		10	.291975	.324296	.351799	.376137	.404872	.424634	.465656	.481659	.515793
11		.317750	.350654	.378506	.403046	.431898	.451669	.492530	.508406	.542153	
12		.343297	.376670	.404778	.429445	.458331	.478057	.518653	.534365	.567656	
13		.368635	.402371	.430652	.455374	.484217	.503848	.544085	.559601	.592368	
14		.393779	.427779	.456153	.480866	.509594	.529083	.568873	.584161	.616343	
15		.418739	.452910	.481305	.505947	.534492	.553795	.593055	.608084	.639623	
16		.443526	.477780	.506124	.530637	.558934	.578010	.616659	.631401	.662241	
17		.468145	.502397	.530625	.554952	.582938	.601747	.639708	.654136	.684225	
18		.492603	.526772	.554816	.578904	.606519	.625022	.662222	.676309	.705593	
19		.516904	.550909	.578707	.602502	.629688	.647846	.684212	.697933	.726363	
20		.541049	.574813	.602302	.625752	.652451	.670228	.705690	.719019	.746544	
21		.565042	.598486	.625604	.648658	.674813	.692172	.726659	.739572	.766145	
22		.588882	.621930	.648615	.671221	.696776	.713680	.747124	.759595	.785167	
23		.612569	.645142	.671334	.693441	.718338	.734751	.767081	.779087	.803611	
24		.636101	.668122	.693758	.715313	.739496	.755380	.786528	.798043	.821471	
25		.659475	.690865	.715880	.736832	.760243	.775561	.805456	.816456	.838741	
26		.682688	.713364	.737695	.757989	.780568	.795283	.823853	.834313	.855406	
27		.705734	.735611	.759191	.778772	.800458	.814531	.841704	.851597	.871450	
28		.728605	.757597	.780355	.799166	.819896	.833286	.858986	.868288	.886852	
29		.751293	.779307	.801171	.819151	.838859	.851525	.875674	.884357	.901582	
30		.773785	.800723	.821617	.838701	.857319	.869216	.891735	.899772	.915607	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
41	31	.796068	.821825	.841665	.857787	.875240	.886323	.907126	.914489	.928883
	32	.818123	.842585	.861281	.876368	.892577	.902796	.921796	.928455	.941357
	33	.839925	.862967	.880421	.894392	.909273	.918575	.935678	.941603	.952961
	34	.861443	.882923	.899027	.911794	.925253	.933580	.948688	.953849	.963613
	35	.882633	.902397	.917021	.928485	.940417	.947709	.960717	.965083	.973207
	36	.903436	.921286	.934296	.944343	.954633	.960820	.971622	.975164	.981612
	37	.923765	.939477	.950696	.959193	.967709	.972718	.981207	.983901	.988660
	38	.943480	.956767	.965984	.972773	.979364	.983118	.989205	.991044	.994146
	39	.962340	.972817	.979760	.984649	.989156	.991587	.995247	.996264	.997847
	40	.979849	.986954	.991263	.994037	.996338	.997448	.998879	.999211	.999649
41	.994572	.997434	.998750	.999383	.999755	.999878	.999976	.999988	.999998	
42	1	.037595	.053348	.068843	.084084	.103850	.118518	.151657	.165543	.196914
	2	.069620	.089484	.108038	.125659	.147854	.163965	.199531	.214164	.246772
	3	.099144	.121793	.142414	.161642	.185474	.202552	.239730	.254851	.288239
	4	.127405	.152195	.174392	.194831	.219884	.237673	.276004	.291459	.325349
	5	.154855	.181377	.204831	.226225	.252222	.270549	.309719	.325402	.359595
	6	.181721	.209677	.234157	.256317	.283054	.301791	.341563	.357391	.391730
	7	.208130	.237292	.262616	.285394	.312710	.331755	.371937	.387844	.422203
	8	.234168	.264347	.290368	.313641	.341403	.360670	.401103	.417033	.451304
	9	.259891	.290928	.317520	.341184	.369278	.388695	.429242	.445146	.479235
	10	.285341	.317097	.344150	.368116	.396441	.415943	.456483	.472319	.506142
	11	.310548	.342900	.370318	.394502	.422971	.442501	.482924	.498653	.532135
	12	.335535	.368372	.396066	.420397	.448927	.468433	.508641	.524227	.557300
	13	.360322	.393541	.421429	.445839	.474356	.493789	.533691	.549102	.581700
	14	.384921	.418429	.446435	.470861	.499295	.518611	.558120	.573326	.605390
	15	.409344	.443051	.471105	.495487	.523774	.542931	.581966	.596938	.628411
	16	.433600	.467422	.495457	.519739	.547816	.566773	.605258	.619967	.650797
	17	.457698	.491553	.519503	.543632	.571439	.590157	.628019	.642440	.672573
	18	.481641	.515451	.543255	.567179	.594658	.613101	.650268	.664374	.693761
	19	.505434	.539124	.566721	.590389	.617484	.635615	.672018	.685786	.714377
	20	.529080	.562575	.589906	.613268	.639925	.657708	.693279	.706684	.734434
	21	.552582	.585808	.612814	.635822	.661986	.679387	.714059	.727078	.753538
	22	.575940	.608825	.635448	.658052	.683670	.700654	.734362	.746969	.772895
	23	.599153	.631624	.657806	.679959	.704977	.721510	.754186	.766360	.791305
	24	.622223	.654206	.679888	.701541	.725905	.741951	.773531	.785248	.809167
	25	.645145	.676566	.701689	.722793	.746449	.761974	.792301	.803627	.826473
	26	.667917	.698700	.723205	.743709	.766601	.781569	.810756	.821487	.843216
	27	.690535	.720603	.744426	.764279	.786351	.800726	.828614	.838817	.859382
	28	.712993	.742265	.765343	.784492	.805685	.819429	.845949	.855598	.874554
	29	.735285	.763676	.785942	.804332	.824586	.837660	.862739	.871810	.889908
	30	.757400	.784822	.806206	.823779	.843030	.855395	.878958	.887426	.904217
31	.779327	.805686	.826114	.842809	.860990	.872603	.894573	.902410	.917847	
32	.801053	.826248	.845640	.861390	.878431	.889248	.909542	.916722	.930754	
33	.822558	.846479	.864748	.879484	.895309	.905281	.923815	.930308	.942886	
34	.843820	.866345	.883397	.897040	.911566	.920643	.937326	.943104	.954177	
35	.864806	.885799	.901529	.913994	.927130	.935256	.949993	.955025	.964545	
36	.885475	.904782	.919068	.930259	.941905	.949020	.961708	.965966	.973887	
37	.905769	.923206	.935909	.945716	.955758	.961795	.972332	.975786	.982074	
38	.925601	.940947	.951901	.960194	.968505	.973392	.981673	.984301	.988993	
39	.944837	.957813	.966811	.973436	.979869	.983532	.989470	.991265	.994291	
40	.963242	.973472	.980249	.985020	.989419	.991792	.995363	.996355	.997900	
41	.980329	.987266	.991473	.994180	.996426	.997509	.998906	.999230	.999658	
42	.994701	.997495	.998779	.999397	.999761	.999881	.999976	.999988	.999998	
43	1	.036737	.052140	.067297	.082211	.101561	.115928	.148406	.162023	.192809
	2	.068039	.087473	.105634	.122890	.144639	.160433	.195326	.209693	.241729
	3	.096900	.119071	.139269	.158111	.181481	.198238	.234745	.249605	.282444
	4	.124530	.148810	.170563	.190607	.215192	.232660	.270332	.285535	.318901
	5	.151371	.177360	.200359	.221353	.246883	.264894	.303424	.318865	.352562

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
43	6	.177643	.205053	.229077	.250832	.277108	.295537	.334692	.350291	.384166
	7	.203472	.232079	.256943	.279325	.306190	.324936	.364530	.380221	.414150
	8	.228940	.258561	.284126	.307011	.334335	.353316	.393193	.408923	.442799
	9	.254103	.284584	.310728	.334014	.361687	.380831	.420859	.436579	.470311
	10	.279001	.310208	.336824	.360475	.388349	.407594	.447653	.463323	.496830
	11	.303664	.335478	.362472	.386308	.414398	.433689	.473674	.489254	.522462
	12	.328115	.360429	.387715	.411716	.439892	.459178	.498993	.514450	.547292
	13	.352372	.385087	.412587	.436687	.464878	.484112	.523668	.538970	.571384
	14	.376449	.409474	.437115	.461253	.489391	.508531	.547744	.562862	.594789
	15	.400357	.433606	.461320	.485440	.513462	.532466	.571259	.586164	.617550
	16	.424106	.457497	.485219	.509266	.537113	.555942	.594241	.608907	.639699
	17	.447701	.481157	.508826	.532749	.560362	.578980	.616714	.631115	.661263
	18	.471149	.504596	.532152	.555900	.583226	.601596	.638696	.652808	.682263
	19	.494455	.527819	.555204	.578730	.605714	.623802	.660202	.674001	.702716
	20	.517621	.550833	.577989	.601246	.627835	.645607	.681243	.694705	.722635
	21	.540649	.573639	.600512	.623453	.649596	.667019	.701825	.714928	.742029
	22	.563542	.596239	.622775	.645353	.670999	.688040	.721954	.734676	.760902
	23	.586299	.618636	.644778	.666949	.692047	.708672	.741632	.753949	.779258
	24	.608919	.640828	.666521	.688238	.712738	.728915	.760858	.772749	.797095
	25	.631403	.662812	.688002	.709219	.733069	.748765	.779628	.791070	.814411
	26	.653747	.684586	.709216	.729886	.753035	.768216	.797936	.808906	.831199
	27	.675948	.706145	.730157	.750232	.772627	.787260	.815771	.826247	.847448
	28	.698001	.727483	.750817	.770248	.791834	.805883	.833121	.843080	.863144
	29	.719902	.748590	.771186	.789922	.810643	.824073	.849970	.859388	.878269
	30	.741642	.769455	.791249	.809237	.829035	.841809	.866295	.875148	.892802
	31	.763213	.790067	.810991	.828175	.846989	.859067	.882071	.890334	.906714
	32	.784604	.810407	.830390	.846711	.864476	.875819	.897265	.904912	.919570
	33	.805799	.830455	.849420	.864814	.881463	.892025	.911836	.918841	.932529
	34	.826787	.850184	.868047	.882446	.897904	.907642	.925732	.932068	.944337
	35	.847529	.869560	.886228	.899559	.913746	.922608	.938892	.944529	.955331
36	.868009	.888537	.903910	.916088	.928916	.936849	.951232	.956143	.965430	
37	.888193	.907056	.921016	.931948	.943320	.950266	.962650	.966805	.974533	
38	.907991	.925034	.937444	.947023	.956829	.962723	.973007	.976378	.982514	
39	.927351	.942347	.953048	.961148	.969262	.974034	.982116	.984682	.989211	
40	.946132	.958809	.967598	.974069	.980350	.983926	.989723	.991474	.994428	
41	.964102	.974095	.980715	.985375	.989670	.991986	.995473	.996441	.997950	
42	.980788	.987564	.991673	.994317	.996510	.997568	.998932	.999248	.999666	
43	.994824	.997553	.998808	.999411	.999766	.999883	.999977	.999988	.999998	
44	1	.035917	.050586	.065819	.080420	.099372	.113449	.145291	.158650	.188869
	2	.066527	.085550	.103335	.120242	.141560	.157049	.191294	.205403	.236887
	3	.094755	.116467	.136259	.154732	.177656	.194102	.229962	.244570	.276874
	4	.121792	.145571	.166899	.186562	.210695	.227852	.264887	.279846	.312700
	5	.148040	.173517	.196078	.216687	.241765	.259469	.297377	.312583	.345795
	6	.173744	.200627	.224203	.245577	.271406	.289534	.328089	.343464	.376882
	7	.199017	.227089	.251508	.273507	.299934	.318388	.357408	.372887	.406391
	8	.223939	.253022	.278145	.300653	.327551	.346251	.385583	.401115	.434600
	9	.248566	.278510	.304218	.327137	.354398	.373274	.412789	.428326	.461702
	10	.272935	.303611	.329800	.353045	.380576	.399568	.439150	.454652	.487840
	11	.297077	.328369	.354949	.378443	.406159	.425213	.464760	.480190	.513118
	12	.321015	.352818	.379706	.403380	.431206	.450272	.489690	.505015	.537617
	13	.344764	.376985	.404104	.427896	.455761	.474796	.513998	.529186	.561403
	14	.368341	.400890	.428170	.452022	.479861	.498821	.537728	.552751	.584525
	15	.391754	.424550	.451926	.475781	.503535	.522380	.560917	.575747	.607025
	16	.415014	.447978	.475387	.499195	.526804	.545499	.583592	.598205	.628935
	17	.438128	.471185	.498568	.522279	.549688	.568196	.605778	.620149	.650283
	18	.461100	.494180	.521480	.545045	.572202	.590489	.627494	.641598	.671090
	19	.483936	.516969	.544130	.567504	.594358	.612389	.648753	.662568	.691373
	20	.506640	.539557	.566526	.589663	.616163	.633907	.669568	.683071	.711144

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
44	21	.529212	.561949	.588672	.611528	.637625	.655050	.689947	.703116	.730414	
	22	.551656	.584146	.610572	.633107	.658748	.675823	.709895	.722709	.749189	
	23	.573571	.606150	.632226	.654388	.679535	.696227	.729415	.741852	.767473	
	24	.596159	.627961	.653635	.675386	.699984	.716264	.748508	.760547	.785266	
	25	.618217	.649577	.674797	.696093	.720095	.735931	.767171	.778791	.802567	
	26	.640144	.670996	.695710	.716506	.739864	.755224	.785400	.796579	.819371	
	27	.661939	.692215	.716368	.736621	.759283	.774136	.803188	.813905	.835670	
	28	.683597	.713229	.736766	.756428	.778346	.792658	.820524	.830757	.851454	
	29	.705114	.734030	.756894	.775920	.797040	.810779	.837396	.847122	.866707	
	30	.726484	.754610	.776743	.795083	.815352	.828482	.853785	.862987	.881413	
	31	.747700	.774958	.796299	.813901	.833263	.845749	.869671	.878316	.895547	
	32	.768754	.795062	.815545	.832356	.850752	.862557	.885028	.893096	.909083	
	33	.789633	.814904	.834460	.850423	.867791	.878875	.899827	.907289	.921986	
	34	.810324	.834463	.853018	.868073	.884346	.894667	.914015	.920854	.934214	
	35	.830809	.853715	.871187	.885266	.900374	.909887	.927555	.933741	.945716	
	36	.851066	.872624	.888925	.901957	.915821	.924478	.940381	.945885	.956428	
	37	.871065	.891147	.906178	.918081	.930616	.938366	.952412	.957207	.966272	
	38	.890765	.909225	.922872	.933557	.944668	.951452	.963547	.967604	.975148	
	39	.910111	.926776	.938908	.948769	.957849	.963606	.973650	.976942	.982932	
	40	.929021	.943683	.954141	.962056	.969984	.974645	.982539	.985044	.989467	
	41	.947366	.959759	.968349	.974672	.980808	.984302	.989963	.991674	.994559	
	42	.964922	.974690	.981160	.985712	.989909	.992172	.995578	.996524	.997998	
	43	.981225	.987848	.991863	.994447	.996591	.997623	.998957	.999265	.999651	
	44	.994941	.997608	.998835	.999425	.999772	.999886	.999977	.999989	.999998	
	45	1	.035133	.049881	.064404	.078705	.092725	.111073	.142304	.155414	.185087
		2	.065082	.083710	.101134	.117704	.138609	.153805	.187424	.201285	.232234
		3	.092703	.113975	.133376	.151493	.173988	.190136	.225369	.239732	.271519
		4	.119153	.142471	.163388	.182684	.206381	.223239	.259656	.274376	.306733
		5	.144853	.169836	.191976	.212212	.236853	.254260	.291565	.306541	.339279
		6	.170012	.196388	.219536	.240536	.265931	.283768	.321738	.336894	.369865
		7	.194753	.222308	.246298	.267925	.293926	.312096	.350554	.365826	.398911
		8	.219152	.247715	.272410	.294552	.321034	.339460	.378257	.393594	.426690
		9	.243264	.272689	.297974	.320534	.347394	.366007	.405017	.420372	.453393
		10	.267127	.297287	.323061	.345958	.373103	.391846	.430956	.446290	.479157
		11	.290769	.321553	.347729	.370888	.398236	.417055	.456165	.471444	.504087
		12	.314213	.345520	.372016	.395371	.422850	.441698	.480717	.495906	.528261
		13	.337476	.369214	.395958	.419447	.446988	.465821	.504665	.519735	.551744
		14	.360572	.392655	.419579	.443145	.470686	.489463	.528055	.542978	.574585
		15	.383510	.415860	.442900	.466491	.493972	.512656	.550922	.565672	.596824
		16	.406301	.438842	.465938	.489504	.516870	.535424	.573295	.587846	.618495
17		.428951	.461611	.488706	.512199	.539397	.557787	.595196	.609526	.639625	
18		.451466	.484177	.511216	.534590	.561569	.579761	.616646	.630730	.660233	
19		.473851	.506546	.533476	.556686	.583397	.601359	.637658	.651475	.680339	
20		.496108	.528723	.555493	.578497	.604890	.622593	.658245	.671774	.699955	
21		.518241	.550713	.577272	.600027	.626057	.643468	.678416	.691634	.719091	
22		.540252	.572518	.598816	.621280	.646900	.663990	.698176	.711063	.737756	
23		.562141	.594140	.620128	.642260	.667424	.684163	.717529	.730065	.755953	
24		.583909	.615579	.641207	.662966	.687629	.703988	.736477	.748642	.773685	
25		.605555	.636835	.662055	.683399	.707515	.723463	.755020	.766793	.790950	
26		.627079	.657906	.682667	.703556	.727079	.742587	.773154	.784514	.807747	
27		.648478	.678789	.703042	.723433	.746316	.761354	.790873	.801801	.824069	
28		.669750	.699481	.723174	.743024	.765220	.779757	.808171	.818645	.839908	
29		.690891	.719976	.743056	.762322	.783782	.797787	.825036	.835036	.855253	
30		.711898	.740267	.762680	.781316	.801990	.815431	.841455	.850958	.870088	
31		.732763	.760347	.782035	.799994	.819831	.832674	.857410	.866396	.884396	
32		.753480	.780203	.801108	.818341	.837286	.849497	.872880	.881325	.898154	
33		.774040	.799823	.819883	.836337	.854334	.865877	.887839	.895721	.911334	
34		.794432	.819191	.838338	.853959	.870947	.881783	.902255	.909549	.923902	
35		.814642	.838286	.856448	.871177	.887092	.897182	.916089	.922770	.935817	



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
45	36	.634653	.857082	.874181	.887954	.902727	.912026	.929290	.935333	.947028
	37	.854443	.875546	.891497	.904243	.917798	.926260	.941799	.947176	.957473
	38	.873982	.893636	.908341	.919982	.932237	.939811	.953536	.958220	.967074
	39	.893231	.911794	.924643	.935091	.945953	.952584	.964402	.968365	.975734
	40	.912136	.928440	.940305	.949458	.958822	.964449	.974263	.977479	.983331
	41	.930616	.944958	.955185	.962923	.970672	.975228	.982942	.985390	.989711
	42	.948546	.960667	.969066	.975247	.981246	.984660	.990193	.991865	.994684
	43	.965706	.975259	.981584	.986035	.990137	.992349	.995678	.996603	.998043
	44	.981643	.988119	.992046	.994572	.996667	.997677	.998980	.999282	.999681
	45	.995054	.997661	.998861	.999438	.999777	.999889	.999978	.999989	.999998
46	1	.034383	.048824	.063049	.077062	.095264	.108795	.139437	.152307	.181453
	2	.063698	.081947	.099024	.115272	.135778	.150692	.183707	.197328	.227759
	3	.090738	.111588	.130612	.148387	.170469	.186327	.220955	.235081	.266364
	4	.116634	.139499	.160022	.178964	.202240	.218808	.254626	.269115	.300987
	5	.141799	.166308	.188042	.207917	.232136	.249254	.285973	.300726	.333000
	6	.166437	.192324	.215059	.235697	.260672	.278225	.315626	.330567	.363099
	7	.190667	.217724	.241298	.262565	.288152	.306046	.343955	.359023	.391695
	8	.214565	.242625	.266905	.288691	.314769	.332927	.371200	.386344	.419056
	9	.238183	.267104	.291979	.314191	.340657	.359014	.397526	.412702	.445368
	10	.261560	.291219	.316590	.339148	.365914	.384412	.423054	.438223	.470767
	11	.284723	.315012	.340794	.363624	.390611	.409199	.447874	.463000	.495355
	12	.307693	.338515	.364629	.387669	.414805	.433436	.472055	.487108	.519210
	13	.330489	.361754	.388130	.411319	.438538	.457170	.495652	.510602	.542393
	14	.353122	.384748	.411320	.434604	.461846	.480440	.518709	.533528	.564955
	15	.375604	.407514	.434221	.457549	.484756	.503274	.541260	.555923	.586936
	16	.397944	.430066	.456849	.480172	.507291	.525699	.563333	.577817	.608367
	17	.420148	.452413	.479218	.502490	.529469	.547734	.584954	.599234	.629276
	18	.442223	.474564	.501339	.524515	.551306	.569395	.606139	.620194	.649683
	19	.464172	.496527	.523220	.546259	.572813	.590696	.626904	.640712	.669607
	20	.486000	.518306	.544868	.567728	.593999	.611647	.647261	.660802	.689061
	21	.507709	.539906	.566289	.588929	.614873	.632255	.667220	.680473	.708056
	22	.529302	.561330	.587486	.609866	.635439	.652527	.686787	.699732	.726600
	23	.550779	.582580	.608461	.630544	.655701	.672466	.705967	.718585	.744698
	24	.572141	.603657	.629218	.650962	.675661	.692075	.724762	.737033	.762353
	25	.593388	.624561	.649754	.671121	.695318	.711353	.743173	.755077	.779566
	26	.614520	.645290	.670069	.691021	.714671	.730300	.761198	.772716	.796336
	27	.635535	.665843	.690161	.710657	.733718	.748911	.778832	.789945	.812658
	28	.656431	.686218	.710025	.730025	.752452	.767181	.796071	.806759	.828525
	29	.677206	.706409	.729657	.749121	.770868	.785102	.812905	.823148	.843930
	30	.697855	.726411	.749050	.767934	.788955	.802665	.829324	.839102	.858860
	31	.718375	.746218	.768195	.786456	.806703	.819858	.845314	.854606	.873301
	32	.738759	.765820	.787081	.804675	.824096	.836665	.860857	.869642	.887233
	33	.759000	.785208	.805695	.822573	.841118	.853066	.875933	.884189	.900634
	34	.779089	.804368	.824021	.840133	.857747	.869039	.890515	.898220	.913476
	35	.799016	.823283	.842038	.857331	.873955	.884555	.904572	.911701	.925727
36	.818768	.841935	.859721	.874139	.889710	.899579	.918064	.924595	.937344	
37	.838326	.860297	.877039	.890518	.904971	.914065	.930944	.936850	.948279	
38	.857669	.878338	.893952	.906424	.919684	.927960	.943151	.948406	.958469	
39	.876769	.896015	.910407	.921797	.933783	.941190	.954608	.959186	.967839	
40	.895587	.913271	.926335	.936556	.947179	.953663	.965217	.969091	.976293	
41	.914071	.930030	.941639	.950593	.959752	.965253	.974848	.977992	.983712	
42	.932140	.946176	.956182	.963752	.971330	.975785	.983327	.985720	.989944	
43	.949674	.961534	.969751	.975797	.981663	.985002	.990413	.992047	.994803	
44	.966456	.975802	.981990	.986343	.990355	.992519	.995774	.996678	.998086	
45	.982043	.988379	.992220	.994691	.996740	.997728	.999003	.999298	.999688	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
46	46	.995161	.997712	.998886	.999450	.999782	.999891	.999978	.999989	.999998
47	1	.033664	.047810	.061750	.075486	.093335	.106608	.136683	.149322	.177958
	2	.062371	.080257	.097001	.112938	.133061	.147703	.180134	.193527	.223452
	3	.088855	.109298	.127961	.145405	.167088	.182668	.216710	.230606	.261401
	4	.114220	.136649	.156792	.175392	.198261	.214548	.249785	.264050	.295450
	5	.138872	.162924	.184265	.203793	.227602	.244441	.280589	.295125	.326946
	6	.163009	.188424	.210760	.231048	.255616	.272893	.309739	.324470	.356572
	7	.186749	.213325	.236497	.257414	.282599	.300223	.337596	.352464	.384730
	8	.210165	.237739	.261617	.283058	.308741	.326638	.364396	.379351	.411683
	9	.233310	.261744	.286219	.308091	.334175	.352279	.390302	.405300	.437615
	10	.256220	.285394	.310372	.332597	.358993	.377250	.415431	.430434	.462656
	11	.278922	.308731	.334127	.356637	.383269	.401628	.439871	.454845	.486909
	12	.301437	.331787	.357527	.380257	.407055	.425471	.463691	.478606	.510449
	13	.323783	.354587	.380601	.403495	.430395	.448827	.486944	.501771	.533337
	14	.345972	.377150	.403376	.426380	.453323	.471733	.509674	.524386	.555624
	15	.368015	.399493	.425871	.448936	.475867	.494218	.531914	.546487	.577347
	16	.389921	.421629	.448103	.471181	.498049	.516308	.553694	.568103	.598539
	17	.411696	.443568	.470084	.493137	.519887	.538022	.575036	.589260	.619226
	18	.433347	.465319	.491827	.514802	.541396	.559376	.595959	.609975	.639430
	19	.454877	.486889	.513340	.536201	.562588	.580383	.616477	.630267	.659169
	20	.476291	.508283	.534629	.557336	.583473	.601055	.636605	.650146	.678456
21	.497591	.529505	.555701	.578215	.604058	.621398	.656350	.669624	.697302	
22	.518780	.550559	.576559	.598843	.624349	.641420	.675721	.688708	.715717	
23	.539859	.571448	.597206	.619227	.644350	.661125	.694722	.707404	.733706	
24	.560829	.592172	.617645	.639355	.664064	.680516	.713357	.725715	.751272	
25	.581690	.612732	.637875	.659243	.683491	.699593	.731626	.743642	.768419	
26	.602442	.633127	.657896	.678885	.702630	.718355	.749530	.761184	.785144	
27	.623084	.653356	.677707	.698278	.721481	.736801	.767066	.778340	.801446	
28	.643614	.673418	.697305	.717421	.740037	.754927	.784229	.795105	.817320	
29	.664031	.693307	.716685	.736308	.758295	.772726	.801013	.811471	.832759	
30	.684331	.713022	.735842	.754932	.776247	.790191	.817409	.827430	.847753	
31	.704511	.732555	.754769	.773286	.793884	.807312	.833405	.842970	.862291	
32	.724566	.751900	.773458	.791359	.811194	.824076	.848989	.858077	.876356	
33	.744491	.771048	.791897	.809139	.828163	.840468	.864141	.872733	.889932	
34	.764277	.789989	.810074	.826611	.844773	.856469	.878842	.886917	.902994	
35	.783917	.808710	.827972	.843756	.861003	.872055	.893066	.900601	.915516	
36	.803400	.827194	.845572	.860551	.876826	.887199	.906781	.913753	.927465	
37	.822713	.845423	.862848	.876967	.892709	.901866	.919949	.926335	.938799	
38	.841839	.863371	.879770	.892968	.907113	.916012	.932522	.938297	.949471	
39	.860756	.881007	.896298	.908508	.921485	.929582	.944441	.949580	.959419	
40	.879436	.898289	.912382	.923531	.935261	.942507	.955631	.960108	.968569	
41	.897842	.915162	.927952	.937956	.948351	.954695	.965996	.969784	.976827	
42	.915922	.931550	.942915	.951678	.960640	.966022	.975407	.978482	.984076	
43	.933599	.947342	.957136	.964544	.971959	.976317	.983695	.986035	.990166	
44	.950753	.962364	.970406	.976323	.982063	.985330	.990622	.992222	.994917	
45	.967173	.976327	.982378	.986638	.990564	.992681	.995866	.996750	.998128	
46	.982426	.988628	.992386	.994804	.996810	.997777	.999024	.999313	.999694	
47	.995264	.997761	.998909	.999461	.999786	.999893	.999979	.999989	.999998	
48	1	.032974	.046838	.060503	.073973	.091482	.104508	.134036	.146451	.174596
	2	.061099	.078635	.095059	.110696	.130450	.144829	.176697	.189861	.219304
	3	.087048	.107100	.125414	.142541	.163839	.179149	.212624	.226298	.256617
	4	.111904	.133913	.153689	.171960	.194436	.210451	.245124	.259170	.290111
	5	.136063	.159674	.180637	.199828	.223241	.239810	.275403	.289726	.321106
	6	.159719	.184679	.206629	.226578	.250751	.267760	.304065	.318592	.350272
	7	.182588	.209100	.231882	.252461	.277254	.294616	.331465	.346138	.378004
	8	.205942	.233046	.256534	.277638	.302938	.320580	.357834	.372603	.404560
	9	.228632	.256593	.280681	.302222	.327931	.345789	.383331	.398154	.430119
	10	.251092	.279795	.304391	.326293	.352326	.370346	.408071	.422910	.454811

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
48	11	.273351	.302693	.327715	.349910	.376193	.394326	.432141	.446964	.478735
	12	.295430	.325319	.350693	.373120	.399585	.417788	.455609	.470385	.501966
	13	.317343	.347696	.373356	.395959	.422544	.440776	.478527	.493228	.524564
	14	.339105	.369844	.395729	.418456	.445103	.463328	.500936	.515538	.546578
	15	.360725	.391779	.417831	.440635	.467291	.485473	.522872	.537349	.568045
	16	.382213	.413514	.439679	.462514	.489128	.507235	.544362	.558692	.588999
	17	.403575	.435059	.461285	.484108	.510634	.528634	.565430	.579590	.609465
	18	.424817	.456427	.482662	.505432	.531822	.549687	.586093	.600064	.629465
	19	.445943	.477612	.503816	.526494	.552706	.570406	.606367	.620128	.649015
	20	.466957	.498632	.524757	.547304	.573294	.590802	.626264	.639796	.668131
	21	.487863	.519488	.545489	.567868	.593595	.610883	.645795	.659079	.686824
	22	.508662	.540184	.566017	.588192	.613615	.630657	.664967	.677984	.705103
	23	.529356	.560721	.586343	.608278	.633357	.650127	.683785	.696517	.722574
	24	.549947	.581101	.606470	.628130	.652826	.669298	.702254	.714683	.740442
	25	.570434	.601326	.626400	.647748	.672022	.688170	.720376	.732484	.757509
	26	.590817	.621394	.646131	.667134	.690945	.706745	.738150	.749920	.774176
	27	.611097	.641306	.665664	.686285	.709595	.725020	.755575	.766989	.790441
	28	.631272	.661060	.684996	.705199	.727968	.742992	.772649	.783689	.806302
	29	.651340	.680653	.704123	.723873	.746060	.760658	.789365	.800013	.821753
	30	.671299	.700082	.723042	.742301	.763866	.778011	.805718	.815956	.836786
	31	.691147	.719342	.741747	.760478	.781378	.795043	.821698	.831507	.851391
	32	.710879	.738427	.760231	.778394	.798587	.811743	.837294	.846655	.865557
	33	.730490	.757332	.778485	.796040	.815480	.828100	.852491	.861386	.879267
	34	.749975	.776046	.796499	.813404	.832045	.844097	.867273	.875680	.892504
	35	.769328	.794561	.814259	.830469	.848263	.859717	.881618	.889518	.905245
	36	.788538	.812862	.831749	.847218	.864112	.874935	.895500	.902872	.917462
	37	.807597	.830935	.848951	.863628	.879568	.889725	.908890	.915711	.929123
	38	.826490	.848760	.865838	.879670	.894597	.904051	.921749	.927996	.940189
	39	.845202	.866312	.882382	.895309	.909161	.917872	.934029	.939680	.950609
	40	.863711	.883561	.898543	.910502	.923208	.931133	.945674	.950702	.960326
	41	.881990	.900466	.914271	.925189	.936673	.943767	.956610	.960990	.969266
	42	.900002	.916972	.929499	.939296	.949473	.955682	.966741	.970447	.977337
	43	.917696	.933006	.944136	.952716	.961489	.966758	.975942	.978951	.984424
	44	.934997	.948458	.958049	.965302	.972561	.976826	.984047	.986337	.990379
	45	.951787	.963159	.971034	.976827	.982446	.985643	.990823	.992388	.995026
46	.967860	.976820	.982750	.986921	.990764	.992836	.995954	.996819	.998168	
47	.982793	.988866	.992546	.994914	.996877	.997823	.999045	.999327	.999701	
48	.995362	.997807	.998932	.999473	.999791	.999896	.999979	.999990	.999998	
49	1	.032312	.045905	.059306	.072519	.089702	.102488	.131489	.143688	.171357
	2	.059877	.077078	.093192	.108542	.127940	.142065	.173389	.186334	.215307
	3	.085313	.104989	.122968	.139787	.160713	.175763	.208689	.222146	.252004
	4	.109680	.131284	.150706	.168659	.190754	.206506	.240633	.254467	.284959
	5	.133365	.156551	.177148	.196014	.219043	.235349	.270404	.284520	.315468
	6	.156560	.181080	.202656	.222277	.240666	.262816	.298593	.312921	.344187
	7	.179376	.205038	.227443	.247693	.272107	.289214	.325551	.340031	.371505
	8	.201885	.228534	.251643	.272422	.297348	.314740	.351501	.366086	.397673
	9	.224137	.251640	.275352	.296571	.321915	.339531	.376600	.391250	.422869
	10	.246166	.274411	.298634	.320221	.345900	.363687	.400963	.415639	.447219
	11	.267999	.296887	.321542	.343430	.369370	.387282	.424673	.439345	.470821
	12	.289656	.319097	.344114	.366243	.392379	.410372	.447797	.462434	.493749
	13	.311153	.341066	.366379	.388696	.414968	.433002	.470386	.484962	.516061
	14	.332503	.362813	.388363	.410817	.437169	.455209	.492483	.506971	.537806
	15	.353717	.384354	.410085	.432630	.459010	.477022	.514120	.528498	.559021
	16	.374802	.405702	.431561	.454152	.480512	.498465	.535325	.549571	.579738
	17	.395766	.426865	.452804	.475401	.501694	.519556	.556122	.570214	.599583
	18	.416613	.447854	.473825	.496387	.522569	.540313	.576528	.590447	.619777
	19	.437350	.468675	.494632	.517122	.543151	.560749	.596559	.610284	.639138
	20	.457579	.489334	.515233	.537615	.563448	.580873	.616228	.629741	.658080

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
49	21	.478504	.509835	.535634	.557871	.583470	.600695	.635544	.648826	.676615	
	22	.498926	.530183	.555840	.577896	.603221	.620223	.654515	.667550	.694752	
	23	.519248	.550378	.575853	.597695	.622708	.639460	.673148	.685917	.712499	
	24	.539471	.570424	.595676	.617269	.641933	.658410	.691447	.703933	.729859	
	25	.559596	.590322	.615310	.636622	.660898	.677076	.709415	.721600	.746837	
	26	.579623	.610072	.634756	.655753	.679604	.695459	.727052	.738920	.763433	
	27	.599551	.629673	.654014	.674661	.698050	.713558	.744357	.755892	.779648	
	28	.619380	.649125	.673082	.693346	.716235	.731371	.761330	.772514	.795479	
	29	.639109	.668425	.691958	.711805	.734155	.748894	.777966	.788781	.810923	
	30	.658736	.687572	.710638	.730033	.751807	.766124	.794260	.804689	.825973	
	31	.678258	.706561	.729118	.748026	.769183	.783053	.810204	.820230	.840621	
	32	.697673	.725387	.747392	.765776	.786276	.799673	.825789	.835394	.854858	
	33	.716576	.744046	.765454	.783276	.803078	.815973	.841004	.850170	.868670	
	34	.736163	.762530	.783293	.800515	.819575	.831942	.855834	.864542	.882043	
	35	.755229	.780830	.800901	.817481	.835754	.847564	.870262	.878493	.894958	
	36	.774166	.798937	.818263	.834158	.851598	.862820	.884268	.892002	.907393	
	37	.792965	.816838	.835364	.850529	.867085	.877688	.897826	.905042	.919320	
	38	.811618	.834517	.852184	.866571	.882190	.892139	.910905	.917582	.930707	
	39	.830110	.851956	.868700	.882257	.896881	.906141	.923469	.929584	.941516	
	40	.848425	.869129	.884882	.897551	.911120	.919652	.935471	.941001	.951698	
	41	.866543	.886008	.900692	.912410	.924856	.932618	.946854	.951775	.961194	
	42	.884438	.902551	.916080	.926777	.938026	.944972	.957546	.961833	.969934	
	43	.902072	.918707	.930982	.940578	.950546	.956626	.967453	.971082	.977826	
	44	.919396	.934401	.945307	.953711	.962303	.967462	.976454	.979399	.984756	
	45	.936337	.949528	.958924	.966028	.973137	.977314	.984384	.986626	.990583	
	46	.952778	.963921	.971635	.977309	.982812	.985944	.991016	.992548	.995131	
	47	.969520	.977298	.983106	.987192	.990955	.992985	.996038	.996886	.998206	
	48	.983145	.989094	.992699	.995018	.996942	.997868	.999064	.999341	.999707	
	49	.995456	.997852	.998954	.999483	.999795	.999898	.999980	.999990	.999998	
	50	1	.031676	.045007	.058155	.071122	.087989	.100545	.129036	.141027	.168236
		2	.058704	.075581	.091398	.106470	.125524	.139404	.170201	.182936	.211452
		3	.083646	.102959	.120614	.137138	.157704	.172502	.204896	.218143	.247553
		4	.107542	.128756	.147837	.165482	.187209	.202706	.236302	.249930	.279986
		5	.130772	.153548	.173791	.192343	.215000	.231051	.265581	.279496	.310023
		6	.153522	.177618	.198833	.218135	.241553	.258050	.293313	.307445	.338307
7		.175904	.201131	.223170	.243101	.267146	.284004	.319841	.334133	.365221	
8		.197585	.224192	.246935	.267396	.291958	.309107	.345385	.359790	.391012	
9		.219815	.246874	.270220	.291126	.316113	.333494	.370098	.384577	.415853	
10		.241428	.269230	.293091	.314369	.339701	.357260	.394093	.408609	.439870	
11		.262851	.291297	.315596	.337183	.367788	.380480	.417452	.431974	.463156	
12		.284103	.313107	.337774	.359612	.385425	.403210	.440241	.454739	.485786	
13		.305199	.334683	.359656	.381691	.407654	.425492	.462510	.476958	.507818	
14		.326153	.356043	.381264	.403448	.429508	.447364	.484300	.498674	.529297	
15		.346974	.377203	.402617	.424905	.451011	.468853	.505644	.519921	.550262	
16		.367671	.398176	.423733	.446082	.472187	.489983	.526570	.540728	.570745	
17		.388251	.418971	.444623	.466994	.493052	.510774	.547100	.561119	.590770	
18		.408718	.439598	.465299	.487652	.513622	.531241	.567253	.581113	.610358	
19		.429079	.460063	.485769	.508069	.533908	.551398	.587044	.600726	.629528	
20		.449336	.480371	.506041	.528251	.553920	.571255	.606484	.619971	.648295	
21		.469492	.500528	.526120	.548206	.573667	.590822	.625586	.638859	.666668	
22		.489551	.520537	.546011	.567940	.593155	.610105	.644357	.657398	.684659	
23		.509514	.540401	.565718	.587456	.612389	.629110	.662802	.675596	.702275	
24		.529381	.560122	.585243	.606758	.631372	.647841	.680928	.693458	.719521	
25		.549155	.579701	.604588	.625848	.650107	.666300	.698737	.710986	.736401	
26		.568836	.599140	.623754	.644727	.668595	.684490	.716231	.728182	.752917	
27		.588423	.618437	.642741	.663395	.686837	.702409	.733410	.745048	.769069	
28		.607917	.637593	.661548	.681851	.704831	.720057	.750272	.761580	.784857	
29		.627316	.656606	.680174	.700093	.722574	.737431	.766816	.777778	.800277	
30		.646618	.675475	.698616	.718118	.740064	.754528	.783037	.793636	.815325	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
50	31	.665923	.694195	.716869	.735922	.757296	.771343	.798929	.809149	.829995
	32	.684927	.712764	.734931	.753499	.774263	.787868	.814485	.824308	.844278
	33	.703928	.731176	.752794	.770843	.790958	.804096	.829695	.839105	.858165
	34	.722921	.749427	.770452	.787945	.807371	.820016	.844547	.853526	.871642
	35	.741602	.767509	.787896	.804796	.823491	.835616	.859028	.867557	.884694
	36	.760266	.785414	.805115	.821382	.839302	.850879	.873119	.881181	.897302
	37	.778805	.803131	.822097	.837689	.854789	.865788	.886802	.894376	.909445
	38	.797211	.820648	.838825	.853699	.869930	.880321	.900049	.907117	.921096
	39	.815474	.837950	.855282	.869390	.884700	.894450	.912833	.919372	.932222
	40	.833581	.855019	.871443	.884734	.899068	.908142	.925115	.931104	.942785
	41	.851516	.871830	.887278	.899698	.912996	.921355	.936850	.942266	.952739
	42	.869260	.888353	.902752	.914238	.926434	.934039	.947983	.952803	.962025
	43	.886786	.904551	.917815	.928299	.939321	.946126	.958442	.962641	.970572
	44	.904058	.920370	.932403	.941808	.951575	.957531	.968136	.971689	.978293
	45	.921028	.935740	.946429	.954665	.963083	.968137	.976945	.979829	.985075
	46	.937623	.950554	.959763	.966725	.973690	.977782	.984707	.986903	.990779
	47	.953730	.964652	.972212	.977772	.983164	.986232	.991200	.992701	.995231
	48	.969152	.977756	.983448	.987451	.991139	.993128	.996119	.996949	.998243
	49	.983483	.989313	.992846	.995119	.997003	.997911	.999083	.999354	.999713
	50	.995547	.997895	.998975	.999494	.999799	.999900	.999980	.999990	.999998
52	26	.548402	.578374	.602804	.623687	.647531	.663459	.695399	.707474	.732558
	27	.567338	.597085	.621263	.641880	.665362	.681012	.712307	.724106	.748557
	28	.586198	.615668	.639560	.659881	.682968	.698320	.728928	.740436	.764223
	29	.604954	.634123	.657693	.677690	.700350	.715382	.745261	.756463	.779557
	30	.623634	.652449	.675662	.695304	.717504	.732195	.761305	.772185	.794557
	31	.642227	.670643	.693464	.712722	.734429	.748756	.777055	.787598	.809217
	32	.660731	.688703	.711096	.729940	.751119	.765061	.792506	.802698	.823534
	33	.679144	.706627	.728554	.746953	.767570	.781105	.807653	.817477	.837500
	34	.697465	.724410	.745833	.763756	.783776	.796880	.822487	.831928	.851106
	35	.715689	.742048	.762929	.780342	.799728	.812378	.836999	.846041	.864342
	36	.733812	.759534	.779832	.796702	.815417	.827588	.851176	.859803	.877196
	37	.751831	.776863	.796536	.812827	.830831	.842498	.865006	.873199	.889650
	38	.769740	.794026	.813028	.828703	.845956	.857093	.878470	.886213	.901688
	39	.787532	.811012	.829298	.844317	.860775	.871354	.891549	.898823	.913287
	40	.805198	.827810	.845329	.859651	.875269	.885260	.904218	.911004	.924422
	41	.822729	.844405	.861102	.874684	.889412	.898785	.916447	.922726	.935060
	42	.840114	.860779	.876597	.889388	.903175	.911897	.928203	.933953	.945165
	43	.857335	.876909	.891783	.903732	.916520	.924554	.939439	.944640	.954692
	44	.874375	.892767	.906625	.917674	.929401	.936709	.950103	.954731	.963583
	45	.891207	.908314	.921077	.931161	.941757	.948296	.960126	.964158	.971772
46	.907798	.923501	.935077	.944121	.953509	.959232	.969419	.972831	.979172	
47	.924100	.938259	.948540	.956459	.964550	.969406	.977867	.980637	.985675	
48	.940044	.952487	.961343	.968036	.974730	.978662	.985315	.987424	.991146	
49	.955522	.966029	.973299	.978643	.983826	.986774	.991547	.992989	.995419	
50	.970344	.978619	.984092	.987941	.991485	.993396	.996271	.997069	.998311	
51	.984119	.989726	.993123	.995308	.997119	.997992	.999119	.999380	.999724	
52	.995718	.997976	.999014	.999513	.999807	.999904	.999981	.999990	.999998	
54	26	.529362	.558959	.583161	.603905	.627662	.643576	.675605	.687757	.713083
	27	.547684	.577112	.601111	.621635	.645085	.660761	.692226	.704134	.728898
	28	.565928	.595149	.618913	.639190	.662303	.677721	.708585	.720236	.744409
	29	.584096	.613069	.636568	.656570	.679317	.694457	.724683	.736062	.759617
	30	.602186	.630872	.654073	.673775	.696126	.710969	.740517	.751612	.774571
	31	.620198	.648557	.671429	.690804	.712728	.727254	.756087	.766883	.789119
	32	.638130	.666123	.688633	.707653	.729120	.743310	.771390	.781872	.803407
	33	.655983	.683567	.705682	.724320	.745300	.759132	.786420	.796576	.817382
	34	.673753	.700888	.722574	.740802	.761262	.774718	.801174	.810988	.831036
	35	.691439	.718081	.739305	.757093	.777002	.790060	.815644	.825102	.844364

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
54	36	.709038	.735143	.755869	.773188	.792513	.805151	.829821	.838909	.857356
	37	.726547	.752069	.772260	.789080	.807787	.819982	.843697	.852400	.870001
	38	.743962	.768854	.788472	.804761	.822813	.834544	.857260	.865560	.882286
	39	.761279	.785491	.804496	.820220	.837581	.848824	.870495	.878378	.894196
	40	.778492	.801971	.820322	.835445	.852078	.862807	.883345	.890834	.905713
	41	.795595	.818285	.835936	.850423	.866285	.876475	.895912	.902909	.916815
	42	.812579	.834421	.851326	.865137	.880185	.889807	.908051	.914578	.927478
	43	.829436	.850365	.866472	.879564	.893753	.902778	.919773	.925812	.937670
	44	.846152	.866099	.881353	.893681	.906960	.915356	.931045	.936576	.947355
	45	.862715	.881601	.895941	.907455	.919769	.927503	.941824	.946825	.956489
	46	.879104	.896844	.910202	.920846	.932137	.939171	.952057	.956508	.965019
	47	.895295	.911791	.924090	.933802	.944004	.950297	.961678	.965556	.972877
	48	.911257	.926394	.937547	.946257	.955294	.960802	.970603	.973885	.979982
	49	.926942	.940587	.950491	.958116	.965905	.970578	.978719	.981383	.986228
	50	.942285	.954274	.962803	.969247	.975691	.979475	.985876	.987905	.991486
	51	.957181	.967303	.974303	.979449	.984437	.987274	.991868	.993256	.995593
	52	.971448	.979418	.984688	.988393	.991805	.993645	.996411	.997179	.998375
	53	.984708	.990108	.993379	.995483	.997227	.998067	.999152	.999403	.999734
	54	.995876	.998051	.999051	.999531	.999814	.999907	.999981	.999991	.999998
	56	26	.511581	.540774	.564713	.585283	.608903	.624766	.656793	.668983
27		.529325	.558396	.582175	.602564	.625925	.641583	.673119	.685095	.710076
28		.546997	.575912	.599501	.619684	.642759	.658194	.689204	.700952	.725406
29		.564600	.593320	.616692	.636645	.659406	.674600	.705049	.716556	.740459
30		.582132	.610623	.633747	.653445	.675865	.690801	.720654	.731908	.755233
31		.599593	.627818	.650666	.670085	.692137	.706796	.736019	.747007	.765728
32		.616993	.644906	.667449	.686564	.708219	.722584	.751141	.761850	.783942
33		.634300	.661884	.684092	.702879	.724110	.738162	.766018	.776435	.797873
34		.651545	.678753	.700596	.719028	.739808	.753528	.780646	.790759	.811516
35		.668715	.695508	.716955	.735009	.755307	.768677	.795022	.804817	.824867
	36	.685808	.712148	.733169	.750816	.770604	.783604	.809139	.818603	.837920
	37	.702822	.728669	.749231	.766445	.785692	.798304	.822991	.832110	.850666
	38	.719756	.745067	.765137	.781891	.800566	.812769	.836569	.845329	.863097
	39	.736604	.761338	.780881	.797145	.815218	.826991	.849864	.859250	.875202
	40	.753365	.777476	.796457	.812201	.829636	.840958	.862863	.870861	.886968
	41	.770032	.793474	.811855	.827048	.843812	.854659	.875552	.883148	.898380
	42	.786602	.809324	.827065	.841675	.857730	.868080	.887917	.895093	.909419
	43	.803067	.825017	.842076	.856067	.871375	.881202	.899936	.906677	.920066
	44	.819420	.840542	.856874	.870208	.884727	.894006	.911588	.917875	.930295
	45	.835652	.855884	.871441	.884078	.897765	.906467	.922844	.928660	.940077
	46	.851751	.871026	.885755	.897652	.910459	.918553	.933671	.938997	.949376
	47	.867703	.885948	.899790	.910899	.922775	.930229	.944028	.948845	.958149
	48	.883490	.900622	.913514	.923781	.934668	.941448	.953864	.958150	.966345
	49	.899087	.915013	.926881	.936249	.946084	.952149	.963114	.966849	.973899
	50	.914465	.929077	.939836	.948235	.956947	.962256	.971698	.974859	.980731
	51	.929579	.942747	.952300	.959652	.967160	.971664	.979507	.982074	.986740
	52	.944364	.955931	.964157	.970370	.975582	.980228	.986396	.988351	.991800
	53	.958720	.968484	.975235	.980196	.985004	.987739	.992166	.993502	.995755
	54	.972472	.980159	.985241	.988813	.992102	.993875	.996541	.997281	.998434
	55	.985255	.990463	.993617	.995645	.997327	.998137	.999182	.999424	.999744
56	.996073	.998120	.999084	.999548	.999821	.999910	.999982	.999991	.999998	
58	26	.494941	.523710	.547361	.567730	.591175	.606955	.638909	.651107	.676670
	27	.512140	.540828	.564355	.584577	.607804	.623409	.654936	.666944	.692062
	28	.529273	.557846	.581223	.601275	.624260	.639673	.670740	.682546	.707195
	29	.546341	.574767	.597967	.617826	.640543	.655748	.686322	.697915	.722070
	30	.563345	.591590	.614587	.634231	.656655	.671634	.701684	.713052	.736689

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
58	31	.580284	.608316	.631082	.650489	.672594	.687332	.716825	.727956	.751053	
	32	.597159	.624943	.647453	.666600	.688362	.702842	.731745	.742627	.765159	
	33	.613968	.641472	.663698	.682562	.703956	.718161	.746443	.757064	.779008	
	34	.630711	.657901	.679817	.698375	.719374	.733288	.760915	.771265	.792595	
	35	.647387	.674229	.695806	.714037	.734615	.748220	.775160	.785225	.805919	
	36	.663995	.690454	.711665	.729543	.749675	.762955	.789174	.798942	.818975	
	37	.680533	.706574	.727390	.744892	.764550	.777486	.802951	.812410	.831757	
	38	.697000	.722586	.742978	.760079	.779235	.791811	.816486	.825623	.844260	
	39	.713392	.738486	.758424	.775099	.793726	.805921	.829771	.838573	.856474	
	40	.729709	.754271	.773723	.789946	.808014	.819811	.842779	.851253	.868391	
	41	.745945	.769936	.788870	.804614	.822092	.833471	.855559	.863652	.880001	
	42	.762099	.785475	.803858	.819093	.835951	.846890	.868040	.875757	.891290	
	43	.778165	.800882	.818677	.833375	.849579	.860059	.880228	.887556	.902244	
	44	.794138	.816149	.833319	.847448	.862964	.872960	.892108	.899030	.912845	
	45	.810011	.831267	.847772	.861299	.876089	.885580	.903660	.910162	.923077	
	46	.825779	.846225	.862022	.874911	.888937	.897896	.914862	.920927	.932902	
	47	.841431	.861009	.876052	.888265	.901484	.909885	.925688	.931297	.942305	
	48	.856956	.875603	.889842	.901336	.913704	.921518	.936104	.941241	.951247	
	49	.872341	.889986	.903365	.914096	.925563	.932758	.946070	.950716	.959687	
	50	.887568	.904133	.916590	.926507	.937017	.943560	.955539	.959673	.967575	
	51	.902614	.918009	.929474	.938520	.948014	.953868	.964447	.968049	.974847	
	52	.917450	.931570	.941963	.950073	.958483	.963606	.972715	.975764	.981426	
	53	.932032	.944755	.953981	.961079	.968326	.972672	.980239	.982715	.987215	
	54	.946299	.957477	.965416	.971414	.977409	.980928	.986879	.988765	.992097	
	55	.960153	.969583	.976102	.980891	.985532	.988170	.992442	.993732	.995905	
	56	.973425	.980849	.985755	.989204	.992378	.994089	.996663	.997377	.998489	
	57	.985764	.990793	.993839	.995796	.997470	.998202	.999211	.999444	.999753	
	58	.996160	.998185	.999116	.999564	.999827	.999914	.999983	.999991	.999998	
	60	26	.479338	.507670	.531015	.551162	.574402	.590075	.621898	.634077	.659662
		27	.496022	.524307	.547561	.567590	.590649	.606174	.637625	.649637	.674826
		28	.512645	.540853	.563990	.583881	.606735	.622095	.653145	.664979	.689749
		29	.529209	.557309	.580304	.600035	.622662	.637841	.668459	.680104	.704433
		30	.545713	.573674	.596504	.616054	.638429	.653413	.683569	.695014	.718879
		31	.562157	.589950	.612589	.631938	.654039	.668812	.698476	.709709	.733089
		32	.578542	.606136	.628560	.647687	.669490	.684038	.713180	.724191	.747063
33		.594868	.622231	.644416	.663301	.684783	.699089	.727680	.738457	.760800	
34		.611134	.638237	.660157	.678778	.699916	.713966	.741975	.752508	.774298	
35		.627339	.654150	.675782	.694119	.714888	.728666	.756063	.766341	.787557	
36		.643482	.669971	.691289	.709319	.729697	.743187	.769941	.779954	.800573	
37		.659564	.685698	.706675	.724378	.744340	.757526	.783607	.793342	.813342	
38		.675581	.701328	.721939	.739293	.758814	.771680	.797056	.806502	.825859	
39		.691533	.716859	.737078	.754059	.773114	.785644	.810283	.819428	.838120	
40		.707418	.732289	.752087	.768674	.787236	.799412	.823282	.832114	.850117	
41		.723234	.747614	.766963	.783131	.801174	.812980	.836047	.844554	.861843	
42		.738977	.762831	.781701	.797424	.814922	.826338	.848567	.856737	.873289	
43		.754645	.777934	.796294	.811549	.828471	.839480	.860835	.868654	.884442	
44		.770234	.792917	.810737	.825495	.841812	.852394	.872838	.880294	.895292	
45		.785740	.807776	.825021	.839254	.854935	.865069	.884564	.891642	.905823	
46		.801158	.822502	.839136	.852814	.867825	.877492	.895996	.902682	.916019	
47		.816482	.837085	.853071	.866163	.880470	.889645	.907116	.913395	.925859	
48		.831704	.851517	.866812	.879284	.892849	.901509	.917902	.923759	.935319	
49		.846816	.865782	.880344	.892159	.904942	.913062	.928329	.933746	.944373	
50		.861807	.879866	.893646	.904764	.916722	.924273	.938364	.943325	.952985	
51		.876664	.893748	.906693	.917071	.928156	.935109	.947969	.952455	.961116	
52		.891370	.907404	.919455	.929044	.939203	.945526	.957096	.961088	.968717	
53		.905903	.920800	.931890	.940636	.949812	.955468	.965686	.969164	.975728	
54		.920233	.933894	.943945	.951785	.959912	.964862	.973661	.976605	.982073	
55		.934320	.946626	.955547	.962409	.969412	.973611	.980921	.983312	.987658	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
60	56	.548103	.958909	.966589	.972387	.978180	.981580	.987329	.989151	.992364
	57	.561489	.970608	.976909	.981538	.986023	.988573	.992700	.993946	.996045
	58	.574314	.981492	.986235	.989568	.992636	.994289	.996776	.997466	.998540
	59	.586240	.991101	.994045	.995937	.997506	.998262	.999237	.999463	.999761
	60	.996288	.998246	.999145	.999578	.999833	.999916	.999983	.999992	.999998
62	31	.545110	.572629	.595106	.614361	.636409	.651183	.680936	.692237	.715822
	32	.561031	.588392	.610690	.629756	.651547	.666123	.695414	.706516	.729645
	33	.576897	.604072	.626169	.645027	.666539	.680903	.709704	.720598	.743249
	34	.592709	.619669	.641542	.660173	.681385	.695522	.723806	.734481	.756634
	35	.608465	.635182	.656808	.675194	.696083	.709980	.737719	.748165	.769799
	36	.624165	.650611	.671968	.690088	.710633	.724275	.751441	.761647	.782742
	37	.639809	.665955	.687019	.704854	.725033	.738406	.764970	.774926	.795461
	38	.655395	.681212	.701959	.719489	.739280	.752369	.778302	.787998	.807952
	39	.670923	.696380	.716787	.733991	.753371	.766161	.791436	.800861	.820211
	40	.686391	.711459	.731500	.748358	.767303	.779780	.804365	.813508	.832234
	41	.701798	.726444	.746095	.762586	.781072	.793219	.817085	.825935	.844015
	42	.717141	.741334	.760569	.776670	.794673	.806474	.829590	.838136	.855547
	43	.732419	.756124	.774916	.790605	.808101	.819539	.841873	.850104	.866823
	44	.747629	.770812	.789132	.804386	.821347	.832407	.853925	.861828	.877832
	45	.762767	.785392	.803212	.818006	.834406	.845069	.865738	.873301	.888565
	46	.777830	.799859	.817149	.831457	.847267	.857514	.877299	.884509	.899009
	47	.792914	.814207	.830934	.844730	.859920	.869733	.888595	.895440	.909149
	48	.807715	.828429	.844559	.857814	.872353	.881710	.899612	.906078	.918970
	49	.822525	.842515	.858012	.870696	.884550	.893431	.910332	.916403	.928451
	50	.837239	.856455	.871280	.883361	.896494	.904875	.920732	.926395	.937569
51	.851848	.870237	.884348	.895790	.908165	.916022	.930788	.936026	.946297	
52	.866340	.883846	.897195	.907962	.919535	.926842	.940469	.945265	.954603	
53	.880705	.897261	.909799	.919847	.930574	.937301	.949738	.954075	.962447	
54	.894924	.910459	.922129	.931411	.941242	.947359	.958548	.962408	.969782	
55	.908977	.923408	.934145	.942610	.951489	.956960	.966842	.970205	.976549	
56	.922835	.936066	.945796	.953383	.961246	.966034	.974544	.977391	.982676	
57	.936459	.948375	.957010	.963650	.970426	.974488	.981557	.983869	.988070	
58	.949790	.960252	.967686	.973295	.978900	.982189	.987749	.989511	.992617	
59	.962739	.971566	.977665	.982143	.986482	.988949	.992940	.994145	.996175	
60	.975146	.982094	.986683	.989908	.992876	.994476	.996881	.997549	.998588	
61	.986684	.991390	.994238	.996069	.997587	.998319	.999262	.999480	.999769	
62	.996407	.998302	.999173	.999592	.999838	.999919	.999984	.999992	.999998	
64	31	.529051	.556271	.578557	.597690	.619648	.634392	.664167	.675507	.699233
	32	.544531	.571629	.593768	.612741	.634477	.649048	.678414	.689577	.712891
	33	.559961	.586910	.608881	.627677	.649171	.663555	.692487	.703463	.726346
	34	.575340	.602114	.623897	.642498	.663730	.677915	.706386	.717165	.739599
	35	.590669	.617242	.638815	.657203	.678153	.692126	.720111	.730684	.752649
	36	.605946	.632293	.653635	.671793	.692441	.706188	.733661	.744018	.765495
	37	.621172	.647266	.668356	.686265	.706591	.720099	.747033	.757166	.778135
	38	.636346	.662160	.682977	.700619	.720602	.733858	.760228	.770126	.790567
	39	.651467	.676974	.697496	.714853	.734472	.747463	.773241	.782895	.802790
	40	.666534	.691707	.711911	.728964	.748199	.760910	.786070	.795469	.814798
	41	.681546	.706356	.726221	.742951	.761780	.774197	.798712	.807846	.826588
	42	.696502	.720921	.740422	.756810	.775211	.787320	.811161	.820020	.838154
	43	.711399	.735397	.754511	.770537	.788487	.800273	.823412	.831987	.849492
	44	.726237	.749784	.768486	.784128	.801605	.813053	.835460	.843738	.860595
	45	.741013	.764076	.782341	.797579	.814558	.825652	.847297	.855269	.871453
	46	.755724	.778271	.796072	.810883	.827339	.838064	.858915	.866568	.882059
	47	.770367	.792364	.809674	.824034	.839942	.850279	.870305	.877628	.892402
	48	.784939	.806349	.823139	.837024	.852357	.862290	.881455	.888437	.902469
	49	.799436	.820221	.836459	.849844	.864573	.874083	.892353	.898980	.912247
	50	.813852	.833972	.849627	.862485	.876579	.885647	.902985	.909244	.921719



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
64	51	.828183	.847593	.862630	.874932	.888360	.896965	.913331	.919209	.930867	
	52	.842421	.861076	.875457	.887171	.899899	.908018	.923373	.928854	.939666	
	53	.856559	.874406	.888092	.899185	.911176	.918786	.933084	.938154	.948092	
	54	.870585	.887570	.900516	.910951	.922165	.929241	.942435	.947078	.956113	
	55	.884488	.900549	.912705	.922443	.932835	.939350	.951391	.955588	.963690	
	56	.898252	.913318	.924631	.933626	.943149	.949072	.959905	.963641	.970777	
	57	.911856	.925849	.936255	.944457	.953057	.958355	.967922	.971177	.977317	
	58	.925272	.938099	.947528	.954879	.962495	.967131	.975369	.978125	.983240	
	59	.938463	.950014	.958380	.964813	.971375	.975308	.982151	.984390	.988457	
	60	.951371	.961511	.968712	.974146	.979574	.982759	.988142	.989847	.992855	
61	61	.963910	.972464	.978372	.982710	.986912	.989300	.993165	.994332	.996297	
	62	.975926	.982657	.987103	.990227	.993102	.994651	.996980	.997626	.998633	
	63	.987101	.991660	.994419	.996193	.997663	.998371	.999285	.999497	.999776	
	64	.996519	.998355	.999199	.999604	.999843	.999922	.999984	.999992	.999998	
	66	31	.513899	.540801	.562875	.581863	.603699	.618390	.648132	.659487	.683297
32		.528961	.555771	.577726	.596580	.618225	.632765	.662145	.673341	.696781	
33		.543975	.570670	.592486	.611190	.632626	.647002	.675996	.687025	.710076	
34		.558943	.585498	.607156	.625693	.646901	.661102	.689686	.700538	.723183	
35		.573864	.600255	.621736	.640089	.661051	.675064	.703214	.713881	.736102	
36		.588738	.614941	.636226	.654379	.675075	.688889	.716581	.727054	.748832	
37		.603565	.629555	.650624	.668561	.688973	.702575	.729785	.740055	.761373	
38		.618344	.644098	.664930	.682634	.702744	.716121	.742825	.752883	.773723	
39		.633075	.658567	.679144	.696598	.716387	.729527	.755700	.765537	.785820	
40		.647757	.672963	.693264	.710451	.729899	.742790	.768407	.778014	.797842	
41	41	.662390	.687284	.707288	.724191	.743279	.755907	.780944	.790312	.809605	
	42	.676971	.701528	.721215	.737815	.756523	.768876	.793307	.802426	.821167	
	43	.691501	.715694	.735041	.751322	.769630	.781694	.805492	.814354	.832523	
	44	.705978	.729779	.748766	.764708	.782594	.794356	.817496	.826089	.843668	
	45	.720399	.743781	.762384	.777969	.795413	.806859	.829313	.837628	.854595	
46	46	.734764	.757697	.775894	.791102	.808081	.819196	.840936	.848963	.865299	
	47	.749070	.771524	.789290	.804100	.820592	.831362	.852359	.860087	.875771	
	48	.763314	.785259	.802569	.816960	.832941	.843349	.863573	.870992	.886002	
	49	.777494	.798896	.815723	.829673	.845119	.855150	.874570	.881669	.895982	
	50	.791606	.812430	.828747	.842234	.857117	.866754	.885338	.892105	.905700	
51	51	.805646	.825856	.841634	.854632	.868926	.878151	.895866	.902288	.915140	
	52	.819609	.839167	.854374	.866857	.880534	.889329	.906137	.912203	.924288	
	53	.833491	.852354	.866958	.878898	.891927	.900271	.916137	.921831	.933124	
	54	.847283	.865407	.879371	.890740	.903087	.910960	.925843	.931154	.941627	
	55	.860979	.878315	.891601	.902365	.913995	.921374	.935232	.940144	.949771	
56	56	.874568	.891063	.903628	.913752	.924677	.931488	.944276	.948773	.957525	
	57	.888039	.903632	.915429	.924875	.934953	.941269	.952938	.957005	.964853	
	58	.901376	.916001	.926977	.935702	.944936	.950678	.961176	.964795	.971708	
	59	.914558	.928139	.938235	.946189	.954527	.959663	.968934	.972088	.978036	
	60	.927560	.940007	.949153	.956282	.963665	.968159	.976142	.978812	.983768	
61	61	.940344	.951551	.959666	.965903	.972264	.976077	.982709	.984878	.988818	
	62	.952856	.962691	.969676	.974944	.980207	.983294	.988511	.990163	.993078	
	63	.965010	.973307	.979036	.983242	.987315	.989631	.993377	.994507	.996412	
	64	.976658	.983186	.987498	.990526	.993313	.994815	.997073	.997699	.998675	
	65	.987492	.991913	.994589	.996309	.997734	.998421	.999307	.999512	.999783	
66	66	.996625	.998405	.999223	.999616	.999848	.999924	.999985	.999992	.999998	
	68	31	.499580	.526151	.547997	.566822	.588512	.603129	.632791	.644141	.667989
		32	.514244	.540750	.562501	.581215	.602741	.617228	.646570	.657778	.681293
		33	.528864	.555283	.576921	.595508	.616854	.631197	.660198	.671256	.694420
		34	.543440	.569749	.591257	.609702	.630850	.645039	.673675	.684574	.707371
35		.557973	.584150	.605509	.623796	.644729	.658753	.687002	.697735	.720147	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
68	36	.572463	.558485	.619677	.637792	.658492	.672339	.700178	.710736	.732748
	37	.586908	.612754	.633762	.651688	.672139	.685798	.713204	.723579	.745173
	38	.601310	.626957	.647761	.665484	.685668	.699127	.726079	.736263	.757471
	39	.615668	.641093	.661676	.679180	.699079	.712327	.738802	.748786	.769493
	40	.629981	.655162	.675504	.692774	.712371	.725396	.751371	.761146	.781384
	41	.644249	.669162	.689246	.706265	.725542	.738333	.763785	.773343	.793095
	42	.658470	.683092	.702899	.719651	.738591	.751135	.776040	.785373	.804621
	43	.672645	.696952	.716461	.732931	.751514	.763799	.788135	.797233	.815961
	44	.686772	.710739	.729932	.746102	.764310	.776324	.800065	.808921	.827109
	45	.700850	.724452	.743308	.759162	.776975	.788705	.811828	.820431	.838062
	46	.714878	.738089	.756587	.772106	.789505	.800939	.823417	.831759	.848815
	47	.728853	.751647	.769766	.784933	.801897	.813021	.834829	.842900	.859361
	48	.742774	.765123	.782840	.797637	.814145	.824946	.846057	.853847	.869694
	49	.756640	.778515	.795807	.810213	.826245	.836707	.857094	.864594	.879806
	50	.770446	.791818	.808662	.822657	.838188	.848299	.867932	.875131	.889688
	51	.784191	.805028	.821398	.834962	.849969	.859712	.878562	.885449	.899331
	52	.797871	.818140	.834010	.847120	.861579	.870937	.888974	.895538	.908722
	53	.811483	.831149	.846491	.859122	.873007	.881964	.899155	.905385	.917848
	54	.825021	.844046	.858831	.870960	.884243	.892781	.909091	.914974	.926693
	55	.838480	.856826	.871020	.882620	.895271	.903371	.918765	.924289	.935239
	56	.851854	.869477	.883047	.894089	.906077	.913719	.928158	.933309	.943465
	57	.865135	.881988	.894896	.905350	.916641	.923802	.937247	.942010	.951345
	58	.878314	.894345	.906551	.916382	.926939	.933597	.946002	.950364	.958850
	59	.891378	.906530	.917989	.927160	.936942	.943070	.954390	.958334	.965943
	60	.904313	.918527	.929182	.937652	.946614	.952185	.962368	.965878	.972581
	61	.917100	.930292	.940095	.947816	.955908	.960891	.969884	.972943	.978711
	62	.929712	.941801	.950681	.957600	.964764	.969124	.976869	.979458	.984264
	63	.942114	.952996	.960874	.966928	.973101	.976799	.983233	.985337	.989158
	64	.954252	.963802	.970582	.975695	.980801	.983796	.988857	.990460	.993287
	65	.966045	.974099	.979660	.983742	.987695	.989941	.993575	.994672	.996520
	66	.977347	.983684	.987869	.990808	.993512	.994970	.997160	.997768	.998715
	67	.987861	.992152	.994749	.996418	.997802	.998468	.999328	.999527	.999790
	68	.996724	.998452	.999246	.999628	.999852	.999926	.999985	.999993	.999999
70	31	.486029	.512250	.533864	.552513	.574036	.588565	.618109	.629436	.653283
	32	.500315	.526503	.548036	.566593	.587978	.602397	.631655	.642856	.666402
	33	.514559	.540685	.562128	.580579	.601809	.616099	.645059	.656126	.679356
	34	.528762	.554806	.576141	.594472	.615531	.629686	.658321	.669246	.692144
	35	.542925	.568865	.590077	.608273	.629145	.643154	.671444	.682219	.704769
	36	.557048	.582863	.603934	.621982	.642650	.656503	.684426	.695044	.717230
	37	.571129	.596799	.617713	.635598	.656047	.669733	.697269	.707721	.729527
	38	.585171	.610675	.631414	.649122	.669335	.682843	.709971	.720250	.741661
	39	.599171	.624488	.645036	.662552	.682514	.695834	.722533	.732630	.753630
	40	.613131	.638239	.658580	.675889	.695583	.708704	.734952	.744861	.765433
	41	.627049	.651928	.672043	.689132	.708541	.721452	.747229	.756941	.777070
	42	.640925	.665553	.685425	.702279	.721387	.734077	.759361	.768868	.788537
	43	.654758	.679113	.698725	.715329	.734119	.746577	.771345	.780640	.799834
	44	.668548	.692608	.711942	.728280	.746735	.758950	.783181	.792254	.810956
	45	.682294	.706036	.725073	.741130	.759233	.771193	.794864	.803708	.821901
	46	.695994	.719396	.738117	.753877	.771610	.783303	.806392	.814998	.832665
	47	.709647	.732684	.751071	.766518	.783862	.795277	.817760	.826120	.843243
	48	.723253	.745901	.763933	.779051	.795987	.807111	.828963	.837068	.853631
	49	.736809	.759042	.776700	.791470	.807980	.818800	.839998	.847838	.863822
	50	.750314	.772106	.789367	.803773	.819836	.830339	.850857	.858424	.873809
	51	.763765	.785089	.801932	.815954	.831550	.841723	.861533	.868817	.883586
	52	.777160	.797987	.814389	.828009	.843115	.852944	.872020	.879011	.893143
	53	.790496	.810796	.826733	.839930	.854525	.863994	.882308	.888995	.902470
	54	.803770	.823512	.838959	.851711	.865770	.874865	.892386	.898759	.911556
	55	.816978	.836128	.851057	.863343	.876841	.885545	.902243	.908291	.920387

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
70	56	.830116	.848638	.863022	.874816	.887727	.896023	.911864	.917576	.928949
	57	.843178	.861034	.874841	.886120	.898415	.906284	.921234	.926596	.937224
	58	.856159	.873307	.886504	.897239	.908888	.916312	.930333	.935333	.945190
	59	.869049	.885445	.897997	.908158	.919128	.926085	.939139	.943763	.952823
	60	.881841	.897435	.909302	.918856	.929112	.935579	.947624	.951858	.960094
	61	.894523	.909259	.920397	.929310	.938812	.944764	.955755	.959583	.966968
	62	.907081	.920897	.931257	.939487	.948192	.953602	.963490	.966897	.973403
	63	.919494	.932319	.941846	.949348	.957207	.962046	.970778	.973747	.979345
	64	.931740	.943490	.952119	.958840	.965799	.970033	.977552	.980066	.984731
	65	.943781	.954358	.962012	.967892	.973888	.977479	.983726	.985768	.989478
	66	.955568	.964848	.971435	.976402	.981361	.984269	.989183	.990740	.993484
	67	.967020	.974846	.980248	.984213	.988052	.990233	.993762	.994827	.996621
	68	.977997	.984154	.988218	.991073	.993700	.995115	.997247	.997833	.998752
	69	.988208	.992377	.994900	.996521	.997865	.998512	.999347	.999540	.999796
	70	.996817	.998496	.999268	.999638	.999856	.999928	.999986	.999993	.999999
72	36	.542429	.568014	.588942	.606900	.627506	.641342	.669298	.679952	.702262
	37	.556163	.581631	.602426	.620243	.640656	.654344	.681953	.692458	.714423
	38	.569860	.595191	.615837	.633500	.653705	.667236	.694478	.704826	.726431
	39	.583519	.608693	.629174	.646670	.666653	.680016	.706872	.717055	.738286
	40	.597140	.622138	.642439	.659754	.679500	.692684	.719134	.729146	.749988
	41	.610722	.635525	.655630	.672751	.692243	.705239	.731264	.741098	.761534
	42	.624266	.648853	.668746	.685659	.704884	.717682	.743260	.752908	.772925
	43	.637771	.662122	.681787	.698479	.717419	.730009	.755122	.764576	.784158
	44	.651236	.675332	.694752	.711208	.729849	.742220	.766846	.776099	.795231
	45	.664661	.688480	.707639	.723845	.742171	.754312	.778432	.787476	.806143
	46	.678045	.701566	.720447	.736389	.754383	.766284	.789876	.798704	.816889
	47	.691337	.714589	.733174	.748837	.766483	.778133	.801176	.809779	.827467
	48	.704636	.727546	.745817	.761187	.778468	.789856	.812327	.820698	.837872
	49	.717940	.740437	.758376	.773437	.790335	.801449	.823327	.831457	.848101
	50	.731149	.753258	.770847	.785582	.802080	.812909	.834170	.842050	.858148
51	.744310	.766008	.783226	.797620	.813699	.824230	.844851	.852474	.868007	
52	.757423	.778684	.795512	.809547	.825187	.835409	.855365	.862721	.877671	
53	.770484	.791282	.807699	.821357	.836539	.846438	.865704	.872784	.887134	
54	.783491	.803800	.819783	.833046	.847750	.857312	.875861	.882656	.896386	
55	.796443	.816232	.831758	.844607	.858810	.868022	.885828	.892327	.905418	
56	.809334	.828575	.843620	.856034	.869714	.878559	.895593	.901787	.914219	
57	.822162	.840822	.855360	.867318	.880450	.888914	.905146	.911023	.922774	
58	.834923	.852967	.866970	.878449	.891008	.899075	.914472	.920022	.931071	
59	.847611	.865002	.878442	.889416	.901375	.909026	.923557	.928767	.939090	
60	.860220	.876918	.889763	.900206	.911536	.918753	.932380	.937238	.946812	
61	.872743	.888705	.900920	.910804	.921472	.928234	.940921	.945414	.954213	
62	.885170	.900349	.911895	.921188	.931160	.937446	.949151	.953265	.961265	
63	.897492	.911833	.922668	.931336	.940574	.946360	.957040	.960760	.967933	
64	.909693	.923136	.933214	.941217	.949680	.954938	.964546	.967857	.974176	
65	.921755	.934232	.943498	.950792	.958432	.963135	.971620	.974505	.979943	
66	.933654	.945084	.953476	.960010	.966775	.970890	.978196	.980639	.985171	
67	.945355	.955643	.963086	.968802	.974630	.978121	.984191	.986175	.989779	
68	.956810	.965836	.972240	.977068	.981889	.984715	.989491	.991003	.993669	
69	.967941	.975551	.980803	.984657	.988389	.990509	.993939	.994974	.996717	
70	.978610	.984597	.988548	.991324	.993877	.995252	.997320	.997894	.998787	
71	.988536	.992589	.995042	.996618	.997924	.998554	.999365	.999553	.999801	
72	.996906	.998538	.999288	.999648	.999860	.999930	.999986	.999993	.999999	
74	36	.528547	.553886	.574652	.592502	.613020	.626820	.654764	.665437	.687829
	37	.541949	.567195	.587850	.605579	.625928	.639598	.667231	.677768	.699847
	38	.555317	.580451	.600980	.618575	.638742	.652271	.679575	.689971	.711721
	39	.568649	.593653	.614041	.631491	.651461	.664841	.691797	.702044	.723453
	40	.581945	.606802	.627035	.644326	.664086	.677306	.703897	.713988	.735042

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
74	41	.595207	.619897	.639960	.657080	.676616	.689667	.715873	.725802	.746486
	42	.608432	.632938	.652816	.669753	.689049	.701923	.727726	.737486	.757786
	43	.621622	.645925	.665603	.682344	.701387	.714073	.739454	.749037	.768940
	44	.634775	.658856	.678319	.694851	.713626	.726116	.751056	.760456	.779946
	45	.647891	.671732	.690964	.707274	.725767	.738050	.762531	.771740	.790804
	46	.660969	.684551	.703537	.719612	.737807	.749874	.773875	.782887	.801510
	47	.674010	.697312	.716037	.731863	.749745	.761585	.785088	.793895	.812062
	48	.687011	.710014	.728460	.744025	.761579	.773182	.796166	.804761	.822457
	49	.699972	.722655	.740808	.756095	.773306	.784662	.807107	.815482	.832692
	50	.712893	.735235	.753076	.768073	.784923	.796027	.817907	.826054	.842763
51	.725771	.747750	.765262	.779954	.796428	.807258	.828561	.836473	.852664	
52	.738605	.760200	.777365	.791736	.807817	.818367	.839066	.846735	.862392	
53	.751395	.772581	.789381	.803416	.819085	.829343	.849417	.856834	.871941	
54	.764137	.784892	.801307	.814989	.830228	.840183	.859607	.866764	.881303	
55	.776830	.797128	.813138	.826451	.841241	.850880	.869630	.876517	.890472	
56	.789472	.809287	.824870	.837796	.852117	.861427	.879478	.886087	.899438	
57	.802060	.821364	.836499	.849018	.862850	.871817	.889143	.895464	.908193	
58	.814591	.833354	.848018	.860111	.873432	.882042	.898614	.904638	.916725	
59	.827060	.845253	.859420	.871067	.883853	.892091	.907881	.913597	.925022	
60	.839465	.857054	.870698	.881876	.894102	.901952	.916931	.922327	.933069	
61	.851800	.868749	.881841	.892527	.904167	.911612	.925746	.930813	.940848	
62	.864058	.880330	.892839	.903007	.914034	.921055	.934310	.939034	.948341	
63	.876233	.891785	.903679	.913301	.923683	.930262	.942601	.946969	.955524	
64	.888317	.903102	.914344	.923389	.933093	.939208	.950592	.954592	.962369	
65	.900297	.914265	.924814	.933249	.942238	.947866	.958253	.961870	.968843	
66	.912161	.925253	.935063	.942850	.951084	.956200	.965543	.968762	.974906	
67	.923891	.936040	.945058	.952156	.959589	.964164	.972415	.975220	.980507	
68	.935463	.946591	.954757	.961116	.967697	.971699	.978805	.981179	.985586	
69	.946844	.956858	.964100	.969662	.975331	.978727	.984630	.986560	.990064	
70	.957585	.966770	.973001	.977698	.982387	.985137	.989781	.991252	.993845	
71	.968811	.976218	.981328	.985078	.988708	.990770	.994106	.995112	.996807	
72	.979190	.985015	.988860	.991560	.994044	.995382	.997393	.997951	.998820	
73	.988846	.992790	.995177	.996710	.997981	.998593	.999382	.999565	.999807	
74	.996989	.998577	.999307	.999658	.999864	.999932	.999986	.999993	.999999	
76	36	.515349	.540429	.561019	.578745	.599155	.612903	.640798	.651473	.673909
	37	.528434	.553442	.573940	.591563	.611826	.625459	.653076	.663629	.685780
	38	.541487	.566406	.586798	.604306	.624409	.637917	.665239	.675663	.697516
	39	.554506	.579319	.599592	.616973	.636903	.650278	.677287	.687576	.709118
	40	.567492	.592183	.612322	.629565	.649309	.662542	.689221	.699368	.720585
	41	.580445	.604996	.624989	.642082	.661625	.674708	.701039	.711039	.731918
	42	.593365	.617759	.637591	.654522	.673853	.686776	.712743	.722589	.743116
	43	.606252	.630472	.650129	.666887	.685991	.698745	.724330	.734016	.754179
	44	.619105	.643134	.662602	.679174	.698039	.710616	.735801	.745319	.765105
	45	.631924	.655744	.675009	.691384	.709996	.722386	.747154	.756498	.775893
46	.644708	.668302	.687350	.703515	.721860	.734055	.758387	.767551	.786541	
47	.657458	.680807	.699623	.715567	.733631	.745621	.769499	.778476	.797047	
48	.670171	.693258	.711827	.727537	.745306	.757082	.780489	.789271	.807410	
49	.682849	.705654	.723962	.739424	.756883	.768436	.791352	.799934	.817627	
50	.695489	.717994	.736025	.751227	.768362	.779681	.802088	.810461	.827693	
51	.708091	.730276	.748014	.762943	.779739	.790815	.812692	.820850	.837607	
52	.720655	.742499	.759929	.774570	.791011	.801834	.823162	.831097	.847364	
53	.733177	.754661	.771765	.786105	.802176	.812734	.833493	.841198	.856960	
54	.745658	.766761	.783521	.797546	.813279	.823513	.843680	.851148	.866389	
55	.758096	.778794	.795194	.808888	.824167	.834165	.853720	.860942	.875646	
56	.770489	.790760	.806781	.820128	.834985	.844686	.863606	.870574	.884724	
57	.782835	.802655	.818277	.831261	.845678	.855070	.873331	.880037	.893617	
58	.795131	.814475	.829678	.842282	.856240	.865310	.882889	.889323	.902315	
59	.807376	.826216	.840979	.853185	.866664	.875400	.892270	.898423	.910809	
60	.819565	.837875	.852175	.863964	.876943	.885329	.901465	.907328	.919089	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
76	61	.£31696	.849445	.863258	.874610	.887066	.895090	.910463	.916026	.927142
	62	.843763	.860920	.874221	.885115	.897075	.904670	.919251	.924503	.934954
	63	.855764	.872293	.885055	.895467	.906805	.914055	.927813	.932744	.942508
	64	.£67691	.883556	.895749	.905655	.916394	.923231	.936133	.940730	.949785
	65	.879537	.894698	.906289	.915662	.925773	.932178	.944188	.948439	.956762
	66	.891295	.905707	.916660	.925471	.934920	.940874	.951954	.955846	.963412
	67	.902953	.916566	.926843	.935058	.943811	.949290	.959399	.962918	.969703
	68	.914499	.927256	.936811	.944396	.952412	.957392	.966486	.969618	.975595
	69	.925914	.937751	.946535	.953446	.960683	.965136	.973166	.975896	.981040
	70	.937177	.948017	.955971	.962162	.968568	.972464	.979380	.981691	.985978
	71	.948253	.958007	.965061	.970476	.975995	.979300	.985046	.986923	.990333
	72	.959098	.967653	.973721	.978295	.982860	.985536	.990056	.991488	.994011
	73	.969636	.976849	.981825	.985475	.989009	.991017	.994263	.995243	.996893
	74	.979739	.985412	.989156	.991784	.994203	.995505	.997463	.998006	.998852
	75	.989140	.992981	.995304	.996797	.998034	.998630	.999399	.999577	.999812
	76	.997068	.998615	.999325	.999667	.999868	.999934	.999987	.999993	.999999
78	36	.502787	.527598	.548000	.565591	.585875	.599559	.627373	.638036	.660484
	37	.515569	.540327	.560655	.578158	.598315	.611896	.639643	.650015	.672205
	38	.528320	.553009	.573249	.590654	.610671	.624142	.651444	.661880	.683798
	39	.541040	.565644	.585784	.603079	.622944	.636297	.663317	.673631	.695265
	40	.553728	.578233	.598259	.615434	.635134	.648360	.675083	.685269	.706606
	41	.566386	.590774	.610674	.627718	.647241	.660332	.686741	.696793	.717821
	42	.579013	.603269	.623029	.639931	.659264	.672212	.698291	.708203	.728909
	43	.591609	.615716	.635324	.652073	.671204	.684001	.709734	.719498	.739871
	44	.604174	.628116	.647559	.664143	.683061	.695697	.721067	.730679	.750706
	45	.616707	.640469	.659733	.676142	.694832	.707300	.732291	.741744	.761412
	46	.629208	.652773	.671845	.688067	.706518	.718810	.743404	.752692	.771988
	47	.641677	.665028	.683895	.699919	.718117	.730224	.754406	.763522	.782434
	48	.654113	.677234	.695882	.711697	.729629	.741542	.765294	.774233	.792747
	49	.666516	.689390	.707805	.723398	.741052	.752762	.776067	.784822	.802925
	50	.678985	.701494	.719663	.735023	.752383	.763882	.786722	.795287	.812967
	51	.691219	.713546	.731454	.746568	.763623	.774901	.797258	.805626	.822868
	52	.703518	.725544	.743176	.758033	.774767	.785815	.807672	.815835	.832627
	53	.715781	.737487	.754829	.769415	.785814	.796623	.817960	.825913	.842240
	54	.728006	.749374	.766410	.780711	.796761	.807322	.828120	.835854	.851702
	55	.740193	.761202	.777916	.791920	.807606	.817907	.838146	.845656	.861010
	56	.752340	.772970	.789345	.803038	.818343	.828375	.848036	.855313	.870159
	57	.764445	.784676	.800694	.814062	.828970	.838722	.857783	.864820	.879141
	58	.776507	.796315	.811961	.824987	.839492	.848942	.867383	.874171	.887953
	59	.788524	.807887	.823140	.835810	.849873	.859031	.876828	.883360	.896585
	60	.800493	.819387	.834228	.846525	.860139	.868981	.886112	.892379	.905031
	61	.812412	.830811	.845220	.857127	.870272	.878787	.895225	.901219	.913280
	62	.824279	.842155	.856110	.867609	.880264	.888438	.904160	.909870	.921322
	63	.836088	.853414	.866892	.877963	.890107	.897926	.912904	.918322	.929145
	64	.847838	.864582	.877558	.888180	.899790	.907240	.921445	.926560	.936735
	65	.859521	.875651	.888099	.898251	.909302	.916366	.929478	.934570	.944077
	66	.871134	.886614	.898504	.908162	.918628	.925290	.937857	.942333	.951150
	67	.882670	.897459	.908761	.917898	.927751	.933992	.945690	.949829	.957933
	68	.894119	.908175	.918855	.927442	.936650	.942450	.953242	.957032	.964399
	69	.905472	.918747	.928765	.936772	.945301	.950638	.960484	.963911	.970517
	70	.916715	.929154	.938469	.945860	.953670	.958521	.967378	.970428	.976248
	71	.927833	.939373	.947934	.954669	.961719	.966057	.973878	.976536	.981545
	72	.938801	.949366	.957120	.963153	.969394	.973189	.979925	.982175	.986350
	73	.949590	.959098	.965971	.971247	.976624	.979843	.985439	.987268	.990588
	74	.960153	.968492	.974404	.978860	.983307	.985914	.990317	.991711	.994168
	75	.970418	.977447	.982296	.985853	.989295	.991250	.994413	.995367	.996974

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
78	76	.980260	.985788	.989436	.991997	.994353	.995622	.997528	.998058	.998881
	77	.989419	.993161	.995425	.996880	.998085	.998665	.999414	.999588	.999817
	78	.997143	.998650	.999343	.999675	.999871	.999936	.999987	.999994	.999999
80	36	.490817	.515351	.535558	.553002	.573147	.586755	.614462	.625101	.647535
	37	.503308	.527807	.547954	.565326	.585361	.598879	.626365	.636905	.659103
	38	.515770	.540219	.560294	.577582	.597496	.610917	.638165	.648600	.670551
	39	.528203	.552586	.572578	.589772	.609552	.622868	.649864	.660188	.681880
	40	.540607	.564909	.584805	.601895	.621530	.634733	.661461	.671669	.693090
	41	.552982	.577188	.596976	.613952	.633431	.646513	.672958	.683043	.704182
	42	.565328	.589424	.609091	.625943	.645253	.658206	.684353	.694310	.715154
	43	.577644	.601615	.621150	.637866	.656997	.669814	.695647	.705471	.726008
	44	.589932	.613822	.633153	.649724	.668662	.681335	.706839	.716523	.736743
	45	.602190	.625864	.645099	.661514	.680249	.692770	.717929	.727468	.747358
	46	.614419	.637922	.656987	.673236	.691756	.704117	.728915	.738304	.757852
	47	.626617	.649935	.668819	.684890	.703182	.715377	.739799	.749030	.768225
	48	.638786	.661901	.680591	.696475	.714528	.726547	.750577	.759645	.778474
	49	.650924	.673822	.692305	.707991	.725792	.737627	.761248	.770148	.788600
	50	.663030	.685695	.703958	.719435	.736972	.748615	.771812	.780537	.798598
	51	.675105	.697520	.715551	.730807	.748067	.759509	.782266	.790810	.808469
	52	.687148	.709297	.727081	.742105	.759075	.770309	.792609	.800965	.818209
	53	.699158	.721023	.738548	.753328	.769996	.781012	.802837	.811000	.827815
	54	.711134	.732699	.749949	.764474	.780825	.791615	.812947	.820911	.837284
	55	.723075	.744321	.761283	.775540	.791561	.802116	.822938	.830695	.846614
56	.734990	.755890	.772548	.786525	.802202	.812517	.832806	.840349	.855799	
57	.746848	.767402	.783742	.797476	.812744	.822799	.842546	.849869	.864836	
58	.758678	.778857	.794862	.808240	.823183	.832974	.852154	.859250	.873720	
59	.770468	.790251	.805906	.818962	.833517	.843033	.861626	.868486	.882445	
60	.782217	.801583	.816869	.829591	.843739	.852970	.870955	.877573	.891005	
61	.793922	.812849	.827749	.840120	.853846	.862780	.880136	.886504	.899392	
62	.805581	.824045	.838541	.850546	.863831	.872457	.889161	.895270	.907599	
63	.817192	.835169	.849240	.860863	.873688	.881994	.898022	.903864	.915617	
64	.828752	.846216	.859841	.871064	.883410	.891383	.906710	.912276	.923435	
65	.840258	.857180	.870337	.881141	.892987	.900613	.915215	.920495	.931041	
66	.851704	.868056	.880721	.891086	.902411	.909675	.923523	.928508	.938422	
67	.863088	.878837	.890985	.900889	.911668	.918556	.931620	.936299	.945562	
68	.874403	.889514	.901117	.910538	.920745	.927240	.939490	.943852	.952442	
69	.885643	.900079	.911106	.919018	.929626	.935710	.947112	.951146	.959026	
70	.896799	.910517	.920936	.929312	.938290	.943944	.954463	.958156	.965334	
71	.907862	.920816	.930589	.938398	.946713	.951916	.961512	.964851	.971288	
72	.918820	.930956	.940041	.947248	.954864	.959592	.968224	.971196	.976867	
73	.929654	.940912	.949262	.955829	.962702	.966931	.974553	.977143	.982024	
74	.940344	.950652	.958211	.964094	.970178	.973877	.980441	.982634	.986702	
75	.950860	.960132	.966835	.971979	.977221	.980358	.985812	.987594	.990830	
76	.961155	.969287	.975053	.979397	.983732	.986273	.990564	.991922	.994317	
77	.971161	.978016	.982743	.986211	.989566	.991472	.994555	.995485	.997051	
78	.980755	.986146	.989702	.992199	.994495	.995732	.997591	.998107	.998910	
79	.989694	.993333	.995540	.996958	.998133	.998699	.999429	.999598	.999821	
80	.997215	.998684	.999359	.999684	.999874	.999937	.999987	.999994	.999999	
82	41	.540189	.564199	.583860	.600752	.620165	.633223	.659668	.669773	.690987
	42	.552265	.576184	.595742	.612525	.631789	.644731	.670907	.680895	.701840
	43	.564313	.588127	.607571	.624236	.643339	.656159	.682051	.691917	.712580
	44	.576334	.600029	.619348	.635884	.654816	.667507	.693099	.702837	.723209
	45	.588328	.611890	.631071	.647469	.666219	.678772	.704051	.713657	.733725
	46	.600295	.623709	.642741	.658991	.677548	.689957	.714907	.724375	.744129
	47	.612233	.635485	.654358	.670450	.688802	.701059	.725667	.734990	.754419
	48	.624143	.647220	.665920	.681844	.699980	.712078	.736328	.745503	.764595
	49	.636025	.658911	.677427	.693174	.711083	.723014	.746891	.755911	.774654
	50	.647879	.670559	.688879	.704438	.722108	.733865	.757354	.766213	.784597

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
82	51	.659703	.682162	.700275	.715635	.733055	.744630	.767716	.776409	.794421
	52	.671497	.693721	.711613	.726765	.743923	.755307	.777975	.786496	.804125
	53	.683262	.705234	.722894	.737826	.754709	.765896	.788129	.796472	.813706
	54	.694995	.716700	.734114	.748816	.765412	.776393	.798176	.806335	.823162
	55	.706697	.728119	.745274	.759735	.776031	.786798	.808114	.816083	.832490
	56	.718366	.739488	.756371	.770579	.786564	.797107	.817939	.825712	.841687
	57	.730003	.750807	.767404	.781347	.797007	.807318	.827650	.835220	.850750
	58	.741604	.762074	.778371	.792037	.807358	.817428	.837242	.844603	.859674
	59	.753170	.773288	.789269	.802647	.817614	.827435	.846711	.853857	.868456
	60	.764700	.784445	.800097	.813172	.827771	.837333	.856054	.862977	.877091
	61	.776191	.795545	.810850	.823610	.837827	.847119	.865265	.871958	.885572
	62	.787642	.806584	.821527	.833957	.847776	.856788	.874339	.880795	.893894
	63	.799051	.817560	.832123	.844209	.857613	.866334	.883270	.889482	.902050
	64	.810416	.828469	.842634	.854361	.867333	.875753	.892051	.898010	.910032
	65	.821734	.839308	.853056	.864408	.876929	.885036	.900673	.906371	.917831
	66	.833003	.850072	.863382	.874342	.886395	.894175	.909128	.914557	.925437
	67	.844220	.860757	.873608	.884157	.895721	.903162	.917406	.922555	.932838
	68	.855379	.871356	.883725	.893845	.904898	.911986	.925493	.930354	.940021
	69	.866478	.881863	.893726	.903395	.913914	.920634	.933377	.937940	.946970
	70	.877510	.892270	.903599	.912795	.922755	.929092	.941040	.945293	.953668
71	.888469	.902567	.913333	.922032	.931407	.937342	.948462	.952396	.960093	
72	.899347	.912743	.922914	.931088	.939848	.945363	.955621	.959223	.966221	
73	.910135	.922783	.932322	.939942	.948054	.953130	.962488	.965744	.972020	
74	.920820	.932668	.941535	.948568	.955997	.960609	.969027	.971925	.977454	
75	.931386	.942375	.950524	.956931	.963636	.967760	.975194	.977719	.982478	
76	.941811	.951872	.959249	.964987	.970923	.974530	.980932	.983071	.987037	
77	.952067	.961116	.967656	.972675	.977787	.980848	.986167	.987905	.991060	
78	.962108	.970044	.975669	.979907	.984135	.986614	.990799	.992124	.994459	
79	.971868	.978556	.983168	.986551	.989824	.991683	.994690	.995597	.997124	
80	.981226	.986486	.989955	.992391	.994631	.995837	.997650	.998153	.998937	
81	.989936	.993496	.995649	.997032	.998179	.998731	.999443	.999608	.999826	
82	.997282	.998716	.999375	.999691	.999877	.999939	.999988	.999994	.999999	
84	41	.527966	.551768	.571290	.588086	.607417	.620436	.646852	.656963	.678223
	42	.539783	.563512	.582946	.599647	.618846	.631762	.657934	.667939	.688952
	43	.551574	.575216	.594552	.611150	.630206	.643013	.668977	.678820	.699575
	44	.563340	.586887	.606109	.622593	.641497	.654187	.679829	.689606	.710093
	45	.575080	.598508	.617616	.633978	.652718	.665285	.690642	.700297	.720506
	46	.586793	.610095	.629073	.645303	.663870	.676306	.701365	.710893	.730812
	47	.598481	.621643	.640479	.656569	.674952	.687251	.711997	.721393	.741012
	48	.610143	.633152	.651836	.667775	.685963	.698118	.722537	.731796	.751105
	49	.621778	.644620	.663141	.678921	.696904	.708907	.732986	.742103	.761090
	50	.633387	.656048	.674394	.690006	.707773	.719617	.743341	.752311	.770567
	51	.644969	.667435	.685596	.701029	.718569	.730248	.753603	.762420	.780733
	52	.656523	.678781	.696745	.711990	.729292	.740798	.763769	.772428	.790387
	53	.668049	.690084	.707840	.722887	.739940	.751265	.773839	.782334	.799928
	54	.679548	.701345	.718880	.733719	.750512	.761650	.783810	.792136	.809354
	55	.691017	.712562	.729865	.744486	.761007	.771949	.793681	.801832	.818662
	56	.702457	.723734	.740792	.755185	.771422	.782160	.803450	.811420	.827850
	57	.713866	.734861	.751661	.765815	.781757	.792283	.813114	.820897	.836916
	58	.725245	.745940	.762471	.776374	.792008	.802315	.822670	.830261	.845857
	59	.736591	.756971	.773218	.786860	.802173	.812252	.832115	.839508	.854668
	60	.747904	.767952	.783902	.797271	.812250	.822092	.841447	.848635	.863346
61	.759184	.778881	.794520	.807604	.822236	.831832	.850661	.857637	.871886	
62	.770428	.789757	.805070	.817856	.832126	.841468	.859752	.866511	.880285	
63	.781634	.800577	.815549	.828024	.841919	.850996	.868717	.875251	.888536	
64	.792803	.811339	.825953	.838105	.851608	.860412	.877550	.883852	.896634	
65	.803930	.822039	.836280	.848094	.861190	.869709	.886244	.892307	.904571	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
84	66	.815016	.832675	.846524	.857986	.870658	.878882	.894793	.900609	.912339
	67	.826056	.843243	.856683	.867776	.880008	.887924	.903190	.908750	.919931
	68	.837048	.853739	.866749	.877458	.889230	.896827	.911424	.916721	.927336
	69	.847990	.864158	.876718	.887024	.898318	.905583	.919486	.924511	.934543
	70	.858876	.874495	.886582	.896467	.907260	.914181	.927365	.932108	.941538
	71	.869704	.884742	.896332	.905776	.916048	.922609	.935045	.939497	.948307
	72	.880467	.894892	.905960	.914941	.924666	.930852	.942512	.946667	.954832
	73	.891159	.904935	.915452	.923946	.933099	.938893	.949745	.953583	.961093
	74	.901773	.914861	.924795	.932776	.941378	.946712	.956723	.960236	.967663
	75	.912299	.924654	.933970	.941411	.949330	.954283	.963416	.966593	.972715
	76	.922724	.934297	.942956	.949823	.957074	.961576	.969790	.972618	.978012
	77	.933034	.943767	.951724	.957980	.964524	.968549	.975803	.978267	.982910
	78	.943208	.953033	.960235	.965838	.971631	.975152	.981399	.983485	.987355
	79	.953216	.962053	.968438	.973337	.978327	.981314	.986504	.988200	.991278
	80	.963015	.970764	.976255	.980392	.984519	.986938	.991022	.992315	.994594
	81	.972540	.979071	.983573	.986875	.990070	.991884	.994818	.995703	.997194
	82	.981674	.986809	.990196	.992573	.994760	.995937	.997707	.998198	.998962
	83	.990175	.993651	.995753	.997103	.998222	.998761	.999456	.999617	.999830
	84	.997347	.998746	.999390	.999699	.999880	.999940	.999988	.999994	.999999
	86	41	.516278	.539863	.559235	.575924	.595158	.608128	.634488	.644593
42		.527846	.551374	.570672	.587279	.606396	.619275	.645414	.655423	.676477
43		.539390	.562847	.582062	.598578	.617569	.630350	.656256	.666163	.686980
44		.550910	.574284	.593405	.609822	.628677	.641353	.667013	.676813	.697384
45		.562405	.585684	.604701	.621011	.639720	.652284	.677685	.687374	.707689
46		.573876	.597047	.615951	.632143	.650697	.663143	.688272	.697845	.717893
47		.585323	.608373	.627153	.643220	.661608	.673930	.698774	.708226	.727998
48		.596745	.619662	.638308	.654241	.672454	.684645	.709190	.718516	.738052
49		.608142	.630914	.649415	.665206	.683233	.695287	.719520	.728716	.747905
50		.619515	.642128	.660474	.676113	.693946	.705855	.729764	.738823	.757706
51		.630862	.653304	.671485	.686963	.704590	.716348	.739919	.748838	.767404
52		.642184	.664442	.682446	.697755	.715167	.726767	.749987	.758760	.776598
53		.653481	.675541	.693358	.708489	.725674	.737110	.759964	.768587	.786488
54		.664751	.686600	.704219	.719162	.736111	.747375	.769851	.778317	.795870
55		.675995	.697619	.715029	.729775	.746476	.757562	.779645	.787950	.805144
56		.687211	.708597	.725787	.740326	.756769	.767669	.789344	.797483	.814308
57		.698400	.719533	.736491	.750813	.766938	.777694	.798948	.806915	.823359
58		.709561	.730426	.747141	.761236	.777130	.787636	.808453	.816243	.832295
59		.720692	.741275	.757735	.771593	.787195	.797492	.818758	.825464	.841113
60		.731794	.752079	.768271	.781882	.797179	.807260	.827159	.834577	.849810
61	.742865	.762836	.778747	.792100	.807082	.816938	.836354	.843577	.858384	
62	.753904	.773545	.789163	.802246	.816899	.826523	.845439	.852461	.866829	
63	.764910	.784205	.799515	.812317	.826628	.836011	.854411	.861226	.875141	
64	.775882	.794813	.809801	.822310	.836266	.845398	.863265	.869866	.883317	
65	.786819	.805367	.820019	.832223	.845808	.854682	.871996	.878378	.891350	
66	.797718	.815865	.830164	.842050	.855252	.863856	.880600	.886755	.899235	
67	.808578	.826303	.840235	.851789	.864591	.872916	.889070	.894991	.906964	
68	.819397	.836680	.850227	.861434	.873821	.881857	.897400	.903079	.914531	
69	.830173	.846990	.860135	.870980	.882935	.890670	.905581	.911011	.921927	
70	.840902	.857231	.869954	.880422	.891927	.899350	.913606	.918779	.929141	
71	.851581	.867398	.879678	.889752	.900788	.907886	.921464	.926371	.936164	
72	.862208	.877484	.889301	.898962	.909509	.916269	.929144	.933775	.942981	
73	.872777	.887483	.898814	.908043	.918078	.924487	.936632	.940979	.949579	
74	.883284	.897389	.908207	.916983	.926484	.932526	.943912	.947964	.955939	
75	.893722	.907191	.917469	.925769	.934710	.940369	.950966	.954713	.962043	
76	.904084	.916878	.926586	.934384	.942738	.947995	.957770	.961201	.967865	
77	.914360	.926437	.935540	.942809	.950544	.955382	.964299	.967401	.973376	
78	.924539	.935850	.944310	.951018	.958101	.962496	.970517	.973278	.978543	
79	.934605	.945094	.952868	.958978	.965370	.969301	.976383	.978789	.983321	
80	.944539	.954140	.961175	.966648	.972305	.975744	.981843	.983880	.987658	



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
86	81	.954311	.962945	.969182	.973968	.978841	.981758	.986926	.988481	.991487
	82	.963880	.971450	.976814	.980855	.984885	.987247	.991235	.992497	.994722
	83	.973182	.979561	.983959	.987184	.990304	.992076	.994941	.995805	.997260
	84	.982102	.987117	.990426	.992748	.994883	.996033	.997761	.998240	.998987
	85	.990404	.993799	.995852	.997171	.998264	.998790	.999469	.999626	.999834
	86	.997409	.998776	.999404	.999706	.999883	.999947	.999988	.999994	.999999
88	41	.505091	.528452	.547666	.564239	.583363	.596275	.622556	.632646	.653923
	42	.516420	.539737	.558890	.575393	.594415	.607246	.633328	.643330	.664400
	43	.527726	.550988	.570071	.586495	.605405	.618148	.644020	.653929	.674782
	44	.539009	.562203	.581206	.597544	.616334	.628982	.654631	.664443	.685070
	45	.550269	.573384	.592298	.608541	.627201	.639749	.665162	.674872	.695263
	46	.561506	.584531	.603345	.619485	.638006	.650447	.675612	.685217	.705362
	47	.572721	.595642	.614348	.630376	.648749	.661078	.685983	.695476	.715367
	48	.583912	.606719	.625307	.641215	.659430	.671640	.696273	.705650	.725277
	49	.595080	.617760	.636220	.652002	.670049	.682134	.706482	.715739	.735092
	50	.606225	.628767	.647089	.662734	.680605	.692559	.716610	.725742	.744811
	51	.617346	.639738	.657912	.673413	.691098	.702915	.726655	.735658	.754434
	52	.628444	.650673	.668690	.684038	.701527	.713200	.736618	.745487	.763960
	53	.639518	.661571	.679421	.694609	.711892	.723415	.746498	.755227	.773388
	54	.650568	.672433	.690106	.705123	.722192	.733558	.756293	.764878	.782717
	55	.661593	.683258	.700743	.715582	.732425	.743628	.766002	.774438	.791945
	56	.672593	.694045	.711332	.725983	.742592	.753624	.775624	.783906	.801071
	57	.683567	.704794	.721871	.736326	.752689	.763545	.785157	.793281	.810093
	58	.694516	.715503	.732361	.746610	.762718	.773389	.794600	.802560	.819009
	59	.705438	.726172	.742799	.756833	.772674	.783155	.803950	.811742	.827816
	60	.716332	.736799	.753185	.766994	.782558	.792841	.813207	.820823	.836514
61	.727199	.747385	.763516	.777092	.792367	.802444	.822366	.829803	.845098	
62	.738038	.757927	.773793	.787123	.802099	.811963	.831426	.838678	.853565	
63	.748846	.768424	.784012	.797088	.811751	.821395	.840383	.847444	.861913	
64	.759624	.778875	.794172	.806982	.821322	.830737	.849234	.856098	.870138	
65	.770370	.789278	.804272	.816804	.830808	.839986	.857976	.864638	.878234	
66	.781084	.799631	.814307	.826551	.840205	.849137	.866605	.873057	.886198	
67	.791762	.809932	.824276	.836220	.849511	.858188	.875115	.881351	.894025	
68	.802405	.820178	.834176	.845807	.858720	.867134	.883501	.889516	.901708	
69	.813010	.830367	.844004	.855308	.867829	.875969	.891758	.897544	.909241	
70	.823576	.840497	.853754	.864718	.876832	.884688	.899880	.905429	.916616	
71	.834099	.850562	.863424	.874033	.885723	.893285	.907858	.913163	.923825	
72	.844577	.860560	.873008	.883247	.894496	.901751	.915683	.920737	.930859	
73	.855007	.870486	.882500	.892352	.903141	.910079	.923347	.928141	.937706	
74	.865386	.880334	.891893	.901340	.911650	.918258	.930838	.935363	.944354	
75	.875709	.890097	.901179	.910203	.920013	.926276	.938143	.942389	.950789	
76	.885972	.899770	.910349	.918930	.928216	.934121	.945246	.949204	.956993	
77	.896167	.909341	.919392	.927506	.936245	.941775	.952128	.955788	.962948	
78	.906289	.918802	.928294	.935917	.944081	.949219	.958769	.962119	.968628	
79	.916327	.928137	.937037	.944142	.951702	.956428	.965140	.968170	.974007	
80	.926270	.937330	.945601	.952157	.959079	.963374	.971210	.973906	.979049	
81	.936104	.946360	.953958	.959930	.966177	.970017	.976936	.979286	.983713	
82	.945809	.955195	.962072	.967420	.972949	.976308	.982267	.984257	.987947	
83	.955356	.963797	.969893	.974569	.979331	.982181	.987132	.988749	.991685	
84	.964706	.972105	.977348	.981296	.985234	.987542	.991438	.992671	.994844	
85	.973794	.980029	.984327	.987478	.990527	.992258	.995057	.995902	.997324	
86	.982510	.987412	.990645	.992914	.995000	.996124	.997812	.998281	.999010	
87	.990622	.993940	.995947	.997236	.998304	.998818	.999481	.999635	.999838	
88	.997467	.998803	.999417	.999712	.999886	.999943	.999989	.999994	.999999	

TABLE I. - Continued, COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
90	41	.494373	.517504	.536554	.553004	.572008	.584854	.611037	.621104	.642358
	42	.505472	.528573	.547573	.563963	.582879	.595652	.621657	.631643	.652708
	43	.516550	.539608	.558550	.574873	.593690	.606385	.632199	.642101	.662967
	44	.527605	.550610	.569485	.585732	.604443	.617054	.642665	.652479	.673137
	45	.538639	.561579	.580378	.596542	.615137	.627658	.653056	.662776	.683217
	46	.549651	.572516	.591228	.607307	.625773	.638197	.663370	.672993	.693208
	47	.560642	.583419	.602037	.618013	.636350	.648673	.673608	.683129	.703110
	48	.571610	.594290	.612805	.628673	.646869	.659084	.683771	.693185	.712922
	49	.582558	.605128	.623529	.639284	.657329	.669431	.693857	.703161	.722644
	50	.593483	.615933	.634212	.649845	.667731	.679713	.703867	.713056	.732277
	51	.604386	.626704	.644852	.660356	.678073	.689930	.713799	.722869	.741819
	52	.615267	.637442	.655450	.670816	.688355	.700081	.723655	.732600	.751270
	53	.626126	.648146	.666004	.681224	.698577	.710166	.733432	.742249	.760630
	54	.636962	.658816	.676514	.691581	.708739	.720184	.743130	.751814	.769896
	55	.647775	.669451	.686981	.701886	.718838	.730134	.752748	.761295	.779069
	56	.658565	.680051	.697402	.712138	.728876	.740015	.762285	.770690	.788146
	57	.669332	.690615	.707778	.722335	.738850	.749827	.771740	.779998	.797127
	58	.680074	.701143	.718108	.732478	.748759	.759538	.781112	.789218	.806011
	59	.690792	.711634	.728391	.742566	.758603	.769267	.790398	.798348	.814794
	60	.701485	.722087	.738625	.752596	.768380	.778833	.799597	.807387	.823475
61	.712153	.732502	.748810	.762568	.778088	.788353	.808708	.816331	.832053	
62	.722795	.742877	.758945	.772480	.787726	.797795	.817728	.825180	.840524	
63	.733409	.753212	.769028	.782330	.797292	.807159	.826655	.833930	.848886	
64	.743996	.763504	.779057	.792118	.806784	.816441	.835485	.842579	.857136	
65	.754555	.773754	.789031	.801841	.816199	.825639	.844217	.851123	.865270	
66	.765084	.783958	.798949	.811496	.825536	.834750	.852847	.859560	.873285	
67	.775592	.794117	.808807	.821081	.834790	.843772	.861371	.867885	.881177	
68	.786048	.804227	.818604	.830594	.843959	.852699	.869785	.876094	.888940	
69	.796482	.814287	.828337	.840031	.853039	.861529	.878084	.884182	.896571	
70	.806880	.824294	.838003	.849388	.862026	.870257	.886265	.892145	.904062	
71	.817242	.834246	.847598	.858663	.870916	.878879	.894319	.899975	.911408	
72	.827565	.844139	.857119	.867850	.879703	.887387	.902242	.907667	.918601	
73	.837847	.853971	.866562	.876944	.888381	.895777	.910026	.915212	.925633	
74	.848086	.863737	.875921	.885940	.896985	.904041	.917663	.922602	.932495	
75	.858278	.873433	.885191	.894831	.905385	.912170	.925142	.929827	.939175	
76	.868421	.883054	.894366	.903609	.913693	.920154	.932453	.936875	.945663	
77	.878509	.892593	.903436	.912264	.921858	.927983	.939583	.943734	.951942	
78	.888538	.902043	.912394	.920787	.929869	.935642	.946517	.950386	.957998	
79	.898502	.911395	.921227	.929164	.937710	.943116	.953237	.956814	.963810	
80	.908394	.920639	.929924	.937379	.945363	.950386	.959721	.962996	.969356	
81	.918205	.929761	.938466	.945414	.952806	.957427	.965943	.968904	.974608	
82	.927924	.938744	.946834	.953245	.960012	.964211	.971871	.974506	.979532	
83	.937536	.947568	.955000	.960839	.966946	.970701	.977464	.979761	.984087	
84	.947022	.956203	.962928	.968157	.973563	.976847	.982671	.984616	.988223	
85	.956355	.964610	.970571	.975143	.979799	.982585	.987424	.989005	.991874	
86	.965494	.972731	.977857	.981717	.985568	.987824	.991632	.992837	.994961	
87	.974379	.980476	.984678	.987759	.990740	.992433	.995169	.995994	.997384	
88	.982899	.987693	.990854	.993072	.995112	.996211	.997861	.998319	.999032	
89	.990831	.994075	.996037	.997297	.998342	.998844	.999493	.999643	.999841	
90	.997524	.998830	.999430	.999719	.999888	.999944	.999989	.999994	.999999	
92	46	.538280	.560574	.579574	.595571	.613977	.626373	.651528	.661159	.681419
	47	.549055	.571677	.590194	.606104	.624391	.636696	.661635	.671172	.691216
	48	.559809	.582348	.600775	.616591	.634751	.646957	.671669	.681109	.700927
	49	.570543	.592988	.611316	.627030	.645054	.657158	.681632	.690969	.710554
	50	.581256	.603597	.621818	.637422	.655302	.667298	.691522	.700754	.720096

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
92	51	.591949	.614175	.632279	.647767	.665495	.677376	.701340	.710461	.729553
	52	.602620	.624721	.642700	.658065	.675631	.687392	.711084	.720092	.738924
	53	.613271	.635235	.653080	.668314	.685711	.697347	.720756	.729645	.748209
	54	.623901	.645718	.663420	.678515	.695734	.707239	.730353	.739120	.757406
	55	.634509	.656168	.673718	.688667	.705699	.717067	.739876	.748515	.766516
	56	.645096	.666585	.683975	.698769	.715606	.726831	.749323	.757831	.775537
	57	.655661	.676969	.694189	.708822	.725454	.736531	.758694	.767066	.784468
	58	.666203	.687320	.704360	.718823	.735243	.746165	.767987	.776219	.793308
	59	.676723	.697636	.714488	.728773	.744970	.755732	.777201	.785288	.802056
	60	.687220	.707917	.724571	.738671	.754636	.765231	.786335	.794273	.810709
	61	.697694	.718163	.734609	.748514	.764238	.774660	.795387	.803171	.819266
	62	.708143	.728373	.744601	.758303	.773777	.784019	.804356	.811981	.827725
	63	.718568	.738545	.754545	.768036	.783249	.793305	.813239	.820701	.836085
	64	.728968	.748680	.764441	.777711	.792653	.802517	.822035	.829328	.844341
	65	.739342	.758775	.774287	.787328	.801988	.811653	.830740	.837860	.852493
	66	.749689	.768830	.784081	.796883	.811252	.820710	.839353	.846294	.860536
	67	.760009	.778843	.793822	.806375	.820441	.829685	.847871	.854628	.868467
	68	.770300	.788813	.803508	.815802	.829554	.838577	.856290	.862858	.876283
	69	.780562	.798738	.813137	.825162	.838588	.847382	.864606	.870979	.883980
	70	.790793	.808616	.822706	.834452	.847540	.856096	.872816	.878988	.891553
	71	.800991	.818446	.832214	.843668	.856405	.864716	.880916	.886881	.898997
	72	.811156	.828225	.841656	.852807	.865180	.873237	.888899	.894651	.906306
	73	.821286	.837950	.851030	.861866	.873861	.881654	.896761	.902294	.913474
	74	.831378	.847619	.860333	.870840	.882442	.889963	.904496	.909801	.920493
	75	.841430	.857227	.869559	.879724	.890918	.898156	.912095	.917167	.927357
	76	.851440	.866772	.878704	.888512	.899282	.906226	.919551	.924382	.934055
	77	.861405	.876249	.887762	.897198	.907527	.914165	.926855	.931436	.940577
	78	.871321	.885653	.896728	.905775	.915643	.921964	.933994	.938319	.946911
	79	.881185	.894977	.905592	.914232	.923620	.929612	.940958	.945017	.953043
	80	.890991	.904215	.914347	.922561	.931447	.937094	.947731	.951514	.958957
	81	.900734	.913357	.922981	.930747	.939108	.944397	.954295	.957793	.964634
	82	.910407	.922394	.931481	.938777	.946587	.951500	.960630	.963832	.970051
	83	.920001	.931312	.939832	.946630	.953861	.958381	.966709	.969605	.975182
	84	.929505	.940096	.948011	.954284	.960904	.965011	.972502	.975079	.979993
	85	.938905	.948723	.955995	.961708	.967682	.971354	.977968	.980214	.984444
	86	.948182	.957167	.963747	.968862	.974149	.977361	.983058	.984960	.988486
	87	.957309	.965387	.971219	.975692	.980246	.982971	.987704	.989249	.992055
	88	.966248	.973329	.978344	.982120	.985886	.988093	.991817	.992996	.995073
	89	.974938	.980903	.985015	.988028	.990944	.992599	.995275	.996083	.997442
	90	.983272	.987962	.991054	.993224	.995220	.996294	.997908	.998356	.999053
	91	.991031	.994205	.996124	.997356	.998378	.998870	.999504	.999651	.999845
	92	.997577	.998855	.999443	.999725	.999891	.999946	.999989	.999995	.999999
94	46	.527364	.549879	.568357	.584268	.602597	.614956	.640071	.649700	.669984
	47	.537931	.560387	.578795	.594629	.612852	.625127	.650046	.659590	.679674
	48	.548478	.570865	.589194	.604945	.623054	.635241	.659953	.669407	.689283
	49	.559006	.581314	.599556	.615217	.633203	.645298	.669791	.679152	.698812
	50	.569515	.591733	.609881	.625444	.643301	.655296	.679561	.688824	.708260
	51	.580004	.602123	.620167	.635626	.653345	.665237	.689263	.698424	.717628
	52	.590474	.612483	.630416	.645764	.663337	.675119	.698896	.707952	.726915
	53	.600924	.622813	.640626	.655856	.673275	.684943	.708459	.717406	.736120
	54	.611354	.633113	.650799	.665903	.683160	.694708	.717954	.726786	.745244
	55	.621764	.643382	.660932	.675904	.692991	.704413	.727378	.736093	.754285
	56	.632153	.653621	.671026	.685859	.702767	.714059	.736731	.745324	.763242
	57	.642523	.663829	.681081	.695766	.712489	.723644	.746013	.754480	.772116
	58	.652871	.674006	.691096	.705627	.722154	.733168	.755222	.763560	.780905
	59	.663199	.684151	.701071	.715440	.731763	.742629	.764358	.772562	.789607
	60	.673506	.694264	.711004	.725203	.741315	.752027	.773419	.781485	.798222

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
94	61	.683790	.704344	.720895	.734918	.750808	.761362	.782405	.790327	.806748
	62	.694053	.714390	.730743	.744581	.760242	.770630	.791313	.799089	.815183
	63	.704293	.724402	.740548	.754193	.769615	.779832	.800143	.807767	.823526
	64	.714510	.734379	.750309	.763752	.778926	.788966	.808892	.816360	.831774
	65	.724703	.744321	.760023	.773257	.788173	.798030	.817559	.824866	.839926
	66	.734872	.754225	.769691	.782707	.797355	.807027	.826141	.833283	.847979
	67	.745016	.764092	.779311	.792099	.806471	.815941	.834636	.841608	.855930
	68	.755134	.773920	.788880	.801433	.815516	.824783	.843042	.849838	.863777
	69	.765226	.783707	.798399	.810706	.824491	.833547	.851356	.857971	.871515
	70	.775290	.793453	.807864	.819916	.833391	.842230	.859574	.866003	.879142
	71	.785325	.803156	.817274	.829060	.842215	.850828	.867693	.873931	.886653
	72	.795331	.812813	.826626	.838137	.850959	.859339	.875709	.881750	.894045
	73	.805305	.822423	.835919	.847143	.859620	.867759	.883618	.889456	.901311
	74	.815247	.831983	.845148	.856074	.868193	.876082	.891414	.897043	.908446
	75	.825154	.841492	.854311	.864927	.876675	.884305	.899093	.904507	.915445
	76	.835025	.850946	.863404	.873697	.885060	.892423	.906647	.911839	.922300
	77	.844858	.860341	.872424	.882381	.893342	.900428	.914071	.919034	.929002
	78	.854649	.869675	.881364	.890971	.901516	.908313	.921355	.926081	.935544
	79	.864397	.878943	.890221	.899462	.909574	.916072	.928490	.932973	.941915
	80	.874097	.888139	.898987	.907846	.917507	.923694	.935467	.939698	.948103
81	.883746	.897258	.907654	.916114	.925304	.931169	.942272	.946243	.954094	
82	.893339	.906292	.916215	.924257	.932955	.938483	.948891	.952592	.959873	
83	.902871	.915234	.924658	.932262	.940445	.945621	.955307	.958729	.965421	
84	.912334	.924073	.932971	.940113	.947757	.952566	.961499	.964632	.970715	
85	.921720	.932797	.941138	.947793	.954870	.959293	.967442	.970275	.975730	
86	.931019	.941389	.949138	.955278	.961757	.965776	.973105	.975626	.980433	
87	.940216	.949828	.956947	.962539	.968385	.971978	.978450	.980647	.984786	
88	.949293	.958089	.964530	.969536	.974711	.977854	.983427	.985288	.988738	
89	.958223	.966131	.971840	.976217	.980674	.983340	.987971	.989483	.992228	
90	.966970	.973901	.978810	.982506	.986191	.988350	.991994	.993148	.995180	
91	.975473	.981313	.985336	.988286	.991139	.992759	.995377	.996167	.997497	
92	.983629	.988219	.991246	.993369	.995322	.996373	.997953	.998392	.999074	
93	.991222	.994328	.996206	.997413	.998412	.998894	.999515	.999658	.999848	
94	.997629	.998880	.999454	.999731	.999893	.999947	.999989	.999995	.999999	
96	46	.516877	.539207	.557555	.573372	.591613	.603926	.628983	.638603	.658891
	47	.527243	.549526	.567815	.583564	.601711	.613950	.638927	.648368	.668477
	48	.537591	.559817	.578038	.593714	.611760	.623918	.648607	.658066	.677578
	49	.547921	.570080	.588226	.603822	.621758	.633832	.658322	.667694	.687407
	50	.558232	.580315	.598378	.613888	.631706	.643691	.667971	.677254	.696759
	51	.568525	.590522	.608494	.623911	.641605	.653495	.677556	.686746	.706036
	52	.578799	.600701	.618575	.633892	.651454	.663244	.687076	.696168	.715235
	53	.589055	.610852	.628619	.643830	.661252	.672937	.696531	.705522	.724358
	54	.599292	.620975	.638628	.653725	.671000	.682576	.705920	.714806	.733403
	55	.609510	.631069	.648600	.663577	.680697	.692158	.715243	.724020	.742371
	56	.619709	.641134	.658535	.673386	.690343	.701684	.724500	.733164	.751260
	57	.629889	.651170	.668433	.683151	.699937	.711153	.733689	.742236	.760070
	58	.640050	.661177	.678294	.692871	.709480	.720565	.742810	.751238	.768801
	59	.650191	.671155	.688117	.702547	.718969	.729919	.751863	.760166	.777451
	60	.660312	.681102	.697901	.712177	.728405	.739214	.760847	.769021	.786019
	61	.670413	.691019	.707647	.721761	.737786	.748449	.769759	.777801	.794504
	62	.680494	.700905	.717353	.731298	.747113	.757623	.778601	.786506	.802905
	63	.690554	.710759	.727019	.740788	.756383	.766736	.787369	.795134	.811221
	64	.700592	.720580	.736643	.750228	.765596	.775786	.796063	.803683	.819449
	65	.710609	.730369	.746226	.759619	.774750	.784771	.804681	.812151	.827588
66	.720604	.740125	.755766	.768959	.783845	.793690	.813221	.820538	.835636	
67	.730575	.749845	.765261	.778247	.792878	.802542	.821682	.828841	.843590	
68	.740524	.759531	.774711	.787482	.801848	.811325	.830061	.837057	.851449	
69	.750448	.769179	.784115	.796661	.810753	.820037	.838356	.845185	.859210	
70	.760347	.778790	.793470	.805783	.819592	.828675	.846565	.853221	.866869	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
96	71	.770220	.788362	.802776	.814847	.828361	.837237	.854685	.861163	.874424
	72	.780067	.797894	.812031	.823849	.837059	.845720	.862711	.869008	.881871
	73	.789886	.807383	.821231	.832788	.845682	.854122	.870642	.876751	.889206
	74	.799676	.816829	.830376	.841662	.854228	.862439	.878473	.884388	.896424
	75	.809436	.826229	.839463	.850466	.862693	.870667	.886200	.891916	.903521
	76	.819164	.835581	.848489	.859198	.871074	.878803	.893818	.899329	.910491
	77	.828859	.844882	.857450	.867855	.879365	.886840	.901321	.906621	.917328
	78	.838518	.854131	.866344	.876431	.887563	.894775	.908704	.913787	.924025
	79	.848140	.863323	.875165	.884922	.895661	.902600	.915959	.920818	.930575
	80	.857722	.872454	.883910	.893323	.903653	.910310	.923079	.927706	.936968
	81	.867262	.881521	.892574	.901627	.911532	.917896	.930054	.934443	.943194
	82	.876755	.890519	.901149	.909828	.919290	.925349	.936875	.941016	.949242
	83	.886199	.899441	.909628	.917915	.926916	.932658	.943528	.947415	.955099
	84	.895588	.908282	.918003	.925880	.934399	.939811	.950000	.953623	.960749
	85	.904917	.917032	.926264	.933711	.941725	.946793	.956274	.959624	.966173
	86	.914179	.925682	.934397	.941392	.948877	.953585	.962330	.965397	.971350
	87	.923367	.934219	.942388	.948906	.955836	.960166	.968143	.970916	.976255
	88	.932468	.942627	.950217	.956230	.962574	.966508	.973683	.976150	.980855
	89	.941471	.950887	.957859	.963334	.969059	.972576	.978911	.981062	.985112
	90	.950356	.958972	.965280	.970182	.975248	.978325	.983781	.985602	.988979
91	.959099	.966844	.972434	.976720	.981083	.983694	.988227	.989707	.992394	
92	.967661	.974449	.979256	.982875	.986483	.988597	.992164	.993293	.995282	
93	.975986	.981705	.985644	.988532	.991326	.992911	.995475	.996248	.997550	
94	.983971	.988466	.991429	.993509	.995420	.996450	.997996	.998425	.999093	
95	.991405	.994447	.996286	.997467	.998446	.998917	.999525	.999665	.999851	
96	.997678	.998903	.999466	.999736	.999895	.999948	.999990	.999995	.999999	
98	46	.506794	.528934	.547146	.562862	.581007	.593267	.618248	.627851	.648127
	47	.516968	.539070	.557233	.572890	.590952	.603145	.627964	.637495	.657601
	48	.527123	.549180	.567285	.582879	.600849	.612971	.637617	.647072	.667001
	49	.537261	.559263	.577303	.592826	.610699	.622744	.647209	.656585	.676330
	50	.547382	.569320	.587288	.602734	.620501	.632465	.656739	.666032	.685585
	51	.557485	.579350	.597238	.612601	.630256	.642134	.666207	.675414	.694768
	52	.567571	.589353	.607155	.622429	.639964	.651751	.675614	.684731	.703878
	53	.577638	.599330	.617037	.632215	.649624	.661316	.684959	.693982	.712915
	54	.587689	.609280	.626885	.641962	.659237	.670828	.694241	.703168	.721879
	55	.597721	.619204	.636699	.651668	.668801	.680287	.703462	.712288	.730769
	56	.607736	.629100	.646479	.661332	.678318	.689693	.712619	.721341	.739586
	57	.617733	.638969	.656223	.670956	.687785	.699046	.721714	.730327	.748328
	58	.627711	.648810	.665933	.680538	.697204	.708345	.730745	.739246	.756995
	59	.637671	.658623	.675607	.690077	.706573	.717590	.739711	.748097	.765587
	60	.647613	.668409	.685245	.699575	.715893	.726779	.748612	.756879	.774102
	61	.657536	.678166	.694846	.709029	.725161	.735913	.757448	.765592	.782539
	62	.667440	.687894	.704411	.718440	.734378	.744990	.766216	.774233	.790898
	63	.677324	.697593	.713939	.727806	.743543	.754009	.774917	.782803	.799176
	64	.687189	.707261	.723428	.737127	.752655	.762970	.783548	.791300	.807374
	65	.697033	.716900	.732878	.746402	.761712	.771872	.792110	.799723	.815489
66	.706857	.726507	.742289	.755630	.770714	.780713	.800599	.808069	.823520	
67	.716660	.736083	.751659	.764810	.779660	.789491	.809016	.816339	.831465	
68	.726442	.745626	.760988	.773941	.788548	.798207	.817357	.824529	.839323	
69	.736202	.755136	.770274	.783022	.797377	.806857	.825622	.832638	.847089	
70	.745939	.764611	.779517	.792050	.806145	.815440	.833807	.840664	.854764	
71	.755652	.774051	.788714	.801026	.814850	.823954	.841912	.848603	.862343	
72	.765342	.783454	.797865	.809946	.823490	.832397	.849933	.856455	.869824	
73	.775006	.792820	.806967	.818809	.832064	.840766	.857867	.864214	.877204	
74	.784645	.802147	.816020	.827614	.840568	.849059	.865711	.871880	.884479	
75	.794257	.811432	.825021	.836357	.849000	.857273	.873462	.879447	.891646	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
98	76	.803840	.820676	.833967	.845036	.857357	.865405	.881117	.886911	.898699
	77	.813395	.829875	.842858	.853648	.865635	.873450	.888670	.894269	.905634
	78	.822918	.839027	.851688	.862190	.873831	.881406	.896117	.901515	.912447
	79	.832409	.848131	.860457	.870658	.881941	.889266	.903453	.908644	.919129
	80	.841866	.857182	.869159	.879048	.889959	.897206	.910672	.915650	.925676
	81	.851286	.866179	.877791	.887356	.897880	.904680	.917766	.922525	.932079
	82	.860668	.875117	.886349	.895576	.905699	.912221	.924729	.929261	.938330
	83	.870008	.883992	.894828	.903701	.913407	.919642	.931551	.935849	.944418
	84	.879303	.892800	.903220	.911726	.920997	.926933	.938223	.942278	.950333
	85	.888550	.901534	.911519	.919640	.928459	.934084	.944731	.948537	.956061
	86	.897743	.910188	.919717	.927436	.935782	.941083	.951063	.954610	.961587
	87	.906878	.918755	.927802	.935100	.942951	.947915	.957201	.960481	.966893
	88	.915948	.927223	.935764	.942618	.949951	.954562	.963126	.966129	.971959
	89	.924945	.935581	.943587	.949972	.956761	.961002	.968814	.971529	.976757
	90	.933858	.943814	.951251	.957142	.963356	.967210	.974236	.976652	.981259
	91	.942675	.951902	.958733	.964097	.969704	.973149	.979353	.981459	.985425
	92	.951376	.959819	.965998	.970801	.975763	.978777	.984120	.985903	.989210
	93	.959938	.967527	.973004	.977203	.981476	.984032	.988472	.989922	.992553
	94	.968325	.974975	.979684	.983229	.986763	.988833	.992327	.993432	.995380
	95	.976478	.982080	.985940	.988769	.991505	.993058	.995569	.996326	.997601
96	.984299	.988702	.991605	.993642	.995515	.996523	.998038	.998458	.999112	
97	.991580	.994560	.996362	.997519	.998477	.998939	.999534	.999672	.999854	
98	.997726	.998925	.999477	.999742	.999897	.999949	.999990	.999995	.999999	
100	46	.497094	.519038	.537110	.552720	.570761	.582962	.607853	.617433	.637681
	47	.507081	.528998	.547029	.562588	.580556	.592697	.617441	.626955	.647047
	48	.517050	.538932	.556915	.572419	.590305	.602382	.626969	.636414	.656343
	49	.527004	.548841	.566768	.582210	.600009	.612017	.636439	.645811	.665569
	50	.536940	.558725	.576589	.591964	.609668	.621603	.645850	.655145	.674726
	51	.546860	.568583	.586378	.601679	.619283	.631139	.655202	.664418	.683814
	52	.556763	.578416	.596135	.611356	.628852	.640625	.664495	.673629	.692833
	53	.566650	.588224	.605859	.620995	.638376	.650062	.673730	.682777	.701783
	54	.576519	.598007	.615551	.630595	.647854	.659449	.682906	.691863	.710663
	55	.586372	.607764	.625211	.640157	.657288	.668786	.692023	.700887	.719474
	56	.596208	.617495	.634838	.649680	.666675	.678073	.701081	.709847	.728214
	57	.606027	.627201	.644432	.659164	.676017	.687309	.710079	.718745	.736885
	58	.615829	.636881	.653993	.668609	.685313	.696495	.719016	.727579	.745484
	59	.625614	.646535	.663520	.678014	.694562	.705629	.727894	.736349	.754012
	60	.635382	.656162	.673014	.687380	.703765	.714712	.736710	.745054	.762469
	61	.645131	.665763	.682474	.696705	.712919	.723742	.745464	.753694	.770852
	62	.654863	.675336	.691899	.705990	.722026	.732720	.754155	.762268	.779167
	63	.664577	.684883	.701290	.715233	.731084	.741644	.762784	.770775	.787397
	64	.674273	.694401	.710645	.724433	.740092	.750513	.771348	.779213	.795556
	65	.683950	.703891	.719963	.733592	.749050	.759327	.779846	.787583	.803639
66	.693607	.713353	.729246	.742706	.757957	.768085	.788278	.795882	.811643	
67	.703246	.722785	.738490	.751776	.766812	.776785	.796642	.804109	.819568	
68	.712865	.732187	.747697	.760801	.775613	.785426	.804937	.812263	.827411	
69	.722463	.741558	.756864	.769780	.784360	.794008	.813161	.820343	.835172	
70	.732041	.750898	.765991	.778711	.793051	.802528	.821313	.828345	.842847	
71	.741597	.760206	.775077	.787594	.801684	.810985	.829390	.836270	.850435	
72	.751132	.769480	.784120	.796426	.810259	.819378	.837391	.844113	.857933	
73	.760644	.778721	.793120	.805206	.818772	.827703	.845314	.851873	.865339	
74	.770132	.787925	.802075	.813934	.827223	.835960	.853155	.859548	.872650	
75	.779596	.797094	.810983	.822606	.835610	.844145	.860912	.867134	.879863	
76	.789036	.806224	.819843	.831220	.843929	.852256	.868582	.874628	.886974	
77	.798449	.815315	.828652	.839775	.852177	.860291	.876162	.882027	.893980	
78	.807835	.824364	.837409	.848268	.860353	.868245	.883647	.889326	.900876	
79	.817192	.833371	.846111	.856696	.868453	.876116	.891034	.896521	.907657	
80	.826519	.842332	.854755	.865056	.876473	.883899	.898319	.903608	.914318	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
100	81	.835815	.851245	.863339	.873344	.884408	.891589	.905494	.910581	.920854	
	82	.845078	.860108	.871858	.881557	.892255	.899183	.912556	.917434	.927257	
	83	.854305	.868918	.880309	.889689	.900007	.906673	.919497	.924160	.933520	
	84	.863494	.877671	.888688	.897735	.907660	.914053	.926310	.930750	.939634	
	85	.872643	.886362	.896989	.905690	.915205	.921315	.932986	.937196	.945591	
	86	.881748	.894987	.905206	.913546	.922634	.928452	.939514	.943488	.951378	
	87	.890806	.903541	.913332	.921295	.929939	.935451	.945883	.949612	.956983	
	88	.899812	.912017	.921360	.928927	.937107	.942303	.952081	.955556	.962391	
	89	.908761	.920407	.929278	.936431	.944126	.948991	.958089	.961302	.967584	
	90	.917646	.928702	.937075	.943793	.950980	.955498	.963889	.966831	.972542	
	91	.926460	.936889	.944737	.950995	.957648	.961804	.969458	.972118	.977239	
	92	.935192	.944953	.952243	.958016	.964106	.967882	.974766	.977133	.981646	
	93	.943830	.952876	.959571	.964828	.970323	.973699	.979777	.981840	.985725	
	94	.952355	.960631	.966688	.971395	.976257	.979210	.984445	.986192	.989431	
	95	.960744	.968183	.973550	.977665	.981853	.984357	.988707	.990127	.992705	
	96	.968961	.975480	.980094	.983568	.987031	.989060	.992483	.993566	.995474	
	97	.976950	.982441	.986223	.988995	.991676	.993198	.995658	.996400	.997649	
	98	.984613	.988929	.991774	.993770	.995605	.996593	.998077	.998489	.999130	
	99	.991749	.994669	.996435	.997569	.998508	.998960	.999544	.999679	.999857	
	100	.997771	.998947	.999487	.999747	.999899	.999950	.999990	.999995	.999999	
110	55	.535454	.556242	.573299	.587989	.604920	.616343	.639582	.648504	.667323	
	60	.580445	.600911	.617626	.631963	.648421	.659483	.681887	.690450	.708444	
	65	.625104	.645076	.661308	.675172	.691020	.701632	.723017	.731153	.748178	
	70	.669418	.688719	.704322	.717591	.732688	.742754	.762931	.770569	.786477	
	75	.713366	.731805	.746627	.759168	.773364	.782784	.801554	.808618	.823255	
	80	.756910	.774280	.788151	.799820	.812951	.821617	.838762	.845170	.858367	
	85	.799995	.816060	.828788	.839421	.851301	.859089	.874364	.880025	.891594	
	90	.842530	.857007	.868363	.877767	.888176	.894940	.908058	.912865	.922589	
	95	.884362	.896892	.906586	.914514	.923176	.928734	.939340	.943163	.950780	
	100	.925200	.935277	.942902	.949014	.955549	.959655	.967276	.969946	.975127	
	105	.964331	.971100	.975982	.979722	.983527	.985803	.989753	.991042	.993382	
	110	.997973	.999043	.999534	.999770	.999909	.999954	.999991	.999995	.999999	
	120	60	.534138	.554055	.570406	.584496	.600747	.611719	.634065	.642654	.660793
		65	.575420	.595068	.611133	.624927	.640781	.651451	.673095	.681382	.698824
		70	.616435	.635677	.651342	.664744	.680091	.690384	.711177	.719106	.735735
75		.657175	.675867	.691017	.703928	.718654	.728496	.748285	.755798	.771494	
80		.697624	.715618	.730130	.742446	.756432	.765742	.784367	.791405	.806043	
85		.737760	.754894	.768636	.780244	.793361	.802054	.819344	.825841	.839286	
90		.777548	.793640	.806467	.817241	.829348	.837328	.853094	.858979	.871086	
95		.816933	.831778	.843521	.853319	.864252	.871411	.885437	.890630	.901232	
100		.855832	.869180	.879636	.888286	.897850	.904060	.916091	.920497	.929401	
105		.894105	.905636	.914546	.921827	.929776	.934873	.944592	.948093	.955065	
110		.931485	.940742	.947741	.953348	.959339	.963102	.970081	.972526	.977267	
115		.967318	.973528	.978004	.981432	.984919	.987003	.990621	.991801	.993943	
120		.998142	.999122	.999573	.999789	.999916	.999958	.999992	.999996	.999999	
130		65	.532963	.552110	.567836	.581393	.597040	.607610	.629160	.637451	.654976
		70	.571100	.590070	.605503	.618809	.634118	.644431	.665381	.673415	.690345
	75	.609019	.627598	.642745	.655722	.670603	.680598	.700826	.708555	.724794	
	80	.646714	.664837	.679554	.692119	.706479	.716094	.735475	.742853	.758301	
	85	.684174	.701720	.715907	.727977	.741719	.750889	.769293	.776270	.790825	
	90	.721384	.738223	.751776	.763260	.776281	.784937	.802226	.808749	.822302	
	95	.758321	.774312	.787116	.797915	.810103	.818170	.834193	.840207	.852639	
	100	.794951	.809936	.821861	.831866	.843095	.850489	.865079	.870520	.881702	
	105	.831224	.845018	.855915	.864998	.875123	.881748	.894713	.899508	.909293	
	110	.867061	.879442	.889129	.897136	.905982	.911721	.922832	.926898	.935110	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
130	115	.902334	.913011	.921255	.927987	.935331	.940038	.949007	.952236	.958663
	120	.916795	.945355	.951823	.957002	.962533	.966005	.972443	.974697	.979068
	125	.969843	.975579	.979712	.982877	.986094	.988017	.991354	.992442	.994417
	130	.998285	.999190	.999606	.999805	.999923	.999961	.999992	.999996	.999999
140	70	.531905	.550365	.565532	.578613	.593718	.603929	.624760	.632782	.645752
	75	.567342	.585607	.600566	.613431	.628246	.638234	.658549	.666348	.682804
	80	.602598	.620574	.635247	.647831	.662280	.671996	.691691	.699229	.715090
	85	.637669	.655260	.669569	.681804	.695809	.705202	.724173	.731410	.746592
	90	.672544	.689654	.703517	.715333	.728816	.737830	.755970	.762865	.777283
	95	.707220	.723738	.737070	.748394	.761269	.769849	.787044	.793553	.807118
	100	.741675	.757489	.770197	.780950	.793126	.801211	.817339	.823417	.836032
	105	.775887	.790874	.802855	.812949	.824328	.831851	.846779	.852375	.863935
	110	.809926	.823842	.834982	.844319	.854787	.861674	.875251	.880309	.890698
	115	.843443	.856324	.866488	.874952	.884380	.890544	.902597	.907051	.916135
	120	.876666	.888210	.897233	.904685	.912914	.918248	.928570	.932343	.939563
	125	.909375	.919317	.926987	.933246	.940071	.944443	.952769	.955766	.961728
130	.941341	.949302	.955314	.960125	.965262	.968485	.974460	.976551	.980604	
135	.972006	.977335	.981174	.984112	.987099	.988884	.991980	.992990	.994827	
140	.978407	.999248	.999634	.999819	.999978	.999964	.999993	.999996	.999999	
150	75	.530945	.548787	.563451	.576103	.590719	.600604	.620785	.628561	.645026
	80	.564039	.581712	.596195	.608660	.623023	.632715	.652446	.660028	.676044
	85	.596981	.614406	.628643	.640865	.654912	.664368	.683561	.690917	.706415
	90	.629767	.646864	.660789	.672712	.686377	.695554	.714122	.721217	.736127
	95	.662392	.679077	.692623	.704188	.717405	.726257	.744110	.750910	.765159
	100	.694848	.711035	.724129	.735275	.747974	.756455	.773497	.779966	.793480
	105	.727125	.742720	.755287	.765948	.778054	.786113	.802244	.808344	.821042
	110	.759206	.774108	.786065	.796171	.807603	.815187	.830298	.835987	.847784
	115	.791070	.805167	.816422	.825895	.836564	.843612	.857583	.862815	.873117
	120	.822697	.835850	.846300	.855951	.864855	.871300	.883994	.888719	.898419
	125	.854012	.866091	.875614	.883328	.892357	.898120	.909380	.913539	.922015
	130	.884977	.895788	.904232	.911202	.918892	.923876	.933512	.937033	.944141
135	.915469	.924770	.931940	.937789	.944164	.948245	.956015	.958810	.964369	
140	.945276	.952717	.958333	.962825	.967620	.970628	.976201	.978151	.981931	
145	.973879	.978856	.982439	.985181	.987968	.989634	.992522	.993464	.995172	
150	.998513	.999298	.999658	.999831	.999933	.999967	.999993	.999997	.999999	
160	80	.530069	.547351	.561559	.573822	.587994	.597582	.617169	.624722	.640723
	85	.561111	.578245	.592295	.604393	.618343	.627767	.646953	.654335	.669941
	90	.592022	.608942	.622778	.634665	.648339	.657551	.676273	.683456	.698607
	95	.622902	.639439	.653005	.664632	.677974	.686944	.705120	.712076	.726713
	100	.653446	.669729	.682967	.694285	.707240	.715928	.733482	.740181	.754247
	105	.683948	.699804	.712655	.723612	.736119	.744486	.761339	.767750	.781171
	110	.714300	.729651	.742051	.752593	.764591	.772595	.788661	.794752	.807466
	115	.744491	.759254	.771136	.781204	.792625	.800222	.815410	.821147	.833087
	120	.774506	.788590	.799878	.809409	.820181	.827321	.841533	.846879	.857958
	125	.804324	.817628	.828239	.837162	.847203	.853832	.866960	.871873	.882009
	130	.833917	.846323	.856164	.864397	.873614	.879670	.891589	.896023	.905119
	135	.863243	.874614	.883571	.891019	.899304	.904714	.915279	.919179	.927124
140	.892237	.902403	.910338	.916884	.924102	.928778	.937814	.941115	.947774	
145	.920795	.929532	.936264	.941753	.947733	.951560	.958842	.961461	.966669	
150	.948717	.955701	.960970	.965183	.969678	.972498	.977720	.979547	.983087	
155	.975517	.980185	.983545	.986116	.988728	.990289	.992995	.993878	.995478	
160	.994606	.999342	.999679	.999842	.999937	.999969	.999994	.999997	.999999	
170	85	.529266	.546038	.559830	.571737	.585502	.594819	.613863	.621210	.636784
	90	.558494	.575136	.588788	.600550	.614119	.623286	.641979	.649175	.664398
	95	.587611	.604065	.617530	.629106	.642432	.651418	.669696	.676716	.691538
	100	.616615	.632822	.646051	.657400	.670436	.679208	.697007	.703827	.718195
	105	.645502	.661403	.674347	.685426	.698123	.706649	.723903	.730497	.744358



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
170	110	.674269	.689801	.702409	.713175	.725482	.733728	.750367	.756710	.770010	
	115	.702909	.718006	.730225	.740631	.752496	.760426	.776380	.782443	.795124	
	120	.731415	.746007	.757779	.767777	.779144	.786720	.801912	.807667	.819669	
	125	.759775	.773787	.785051	.794587	.805395	.812578	.826925	.832341	.843598	
	130	.787975	.801324	.812012	.821029	.831211	.837955	.851369	.856411	.866852	
	135	.815995	.828589	.838625	.847057	.856539	.862795	.875175	.879806	.889353	
	140	.843808	.855539	.864836	.872609	.881306	.887017	.898249	.902425	.910989	
	145	.871375	.882116	.890570	.897596	.905407	.910505	.920456	.924128	.931604	
	150	.898635	.908229	.915712	.921882	.928683	.933087	.941593	.944699	.950963	
	155	.925490	.933728	.940072	.945242	.950872	.954475	.961328	.963792	.968690	
	160	.951751	.958331	.963292	.967259	.971490	.974144	.979057	.980775	.984104	
	165	.976962	.981357	.984520	.986939	.989397	.990866	.993412	.994242	.995748	
	170	.998688	.999380	.999698	.999851	.999941	.999971	.999994	.999997	.999999	
	180	90	.528525	.544829	.558240	.569821	.583213	.592281	.610823	.617980	.633160
		95	.556141	.572329	.585616	.597067	.610285	.619219	.637448	.644470	.659337
100		.583659	.599682	.612803	.624090	.637092	.645865	.663726	.670592	.685101	
105		.611080	.626887	.639800	.650887	.663632	.672216	.689653	.696341	.710447	
110		.638400	.653939	.666602	.677452	.689899	.698266	.715270	.721709	.735366	
115		.665617	.680833	.693203	.703778	.715883	.724004	.740417	.746684	.759844	
120		.692726	.707564	.719594	.729855	.741573	.749416	.765227	.771247	.783862	
125		.719720	.734121	.745763	.755668	.766951	.774485	.789628	.795378	.807395	
130		.746592	.760493	.771694	.781199	.791995	.799187	.813593	.819046	.830410	
135		.773332	.786662	.797368	.806424	.816679	.823490	.837084	.842211	.852862	
140		.799924	.812610	.822756	.831310	.840963	.847353	.860052	.864823	.874696	
145		.826351	.838306	.847824	.855816	.864798	.870720	.882433	.886812	.895834	
150		.852587	.863711	.872521	.879882	.888114	.893517	.904137	.908084	.916173	
155		.878594	.888770	.896775	.903424	.910812	.915632	.925036	.928505	.935564	
160		.904316	.913397	.920477	.926312	.932742	.936903	.944938	.947871	.953785	
165	.929659	.937451	.943449	.948337	.953656	.957060	.963531	.965857	.970479		
170	.954446	.960666	.965354	.969102	.973098	.975604	.980242	.981864	.985006		
175	.978246	.982398	.985386	.987671	.989992	.991378	.993782	.994566	.995587		
180	.998761	.999415	.999715	.999859	.999944	.999972	.999994	.999997	.999999		
190	95	.527839	.543713	.556773	.568052	.581101	.589937	.608016	.614998	.629811	
	100	.554010	.569781	.582729	.593893	.606785	.615502	.633299	.640160	.654692	
	105	.580097	.595720	.608521	.619538	.632238	.640811	.658279	.665000	.679211	
	110	.606098	.621530	.634147	.644986	.657458	.665863	.682953	.689514	.703366	
	115	.632011	.647207	.659603	.670233	.682439	.690652	.707313	.713697	.727148	
	120	.657835	.672748	.684885	.695272	.707176	.715170	.731351	.737537	.750547	
	125	.683566	.698147	.709985	.720096	.731658	.739407	.755055	.761023	.773547	
	130	.709198	.723397	.734895	.744693	.755872	.763349	.778407	.784136	.796131	
	135	.734727	.748489	.759603	.769050	.779803	.786979	.801388	.806854	.818272	
	140	.760144	.773412	.784093	.793149	.803429	.810271	.823968	.829148	.839938	
	145	.785438	.798148	.808346	.816967	.826723	.833198	.846112	.850980	.861087	
	150	.810597	.822680	.832337	.840473	.849648	.855718	.867775	.872301	.881664	
	155	.835603	.846979	.856030	.863625	.872156	.877779	.888892	.893044	.901597	
	160	.860431	.871008	.879378	.886369	.894183	.899309	.909380	.913121	.920786	
	165	.885046	.894713	.902313	.908624	.915632	.920203	.929117	.932404	.939091	
170	.909394	.918015	.924733	.930267	.936363	.940308	.947921	.950699	.956300		
175	.933386	.940778	.946467	.951100	.956142	.959366	.965496	.967699	.972075		
180	.956856	.962753	.967197	.970748	.974534	.976907	.981301	.982836	.985811		
185	.979394	.983329	.986160	.988325	.990523	.991836	.994113	.994855	.996200		
190	.998826	.999446	.999730	.999867	.999947	.999974	.999995	.999997	.999999		
200	100	.527202	.542678	.555412	.566413	.579142	.587766	.605414	.612232	.626704	
	105	.552072	.567455	.580089	.590986	.603574	.612089	.629484	.636192	.650411	
	110	.576868	.592119	.604621	.615387	.627802	.636188	.653287	.659869	.673799	
	115	.601588	.616670	.629008	.639614	.651826	.660061	.676820	.683260	.696866	
	120	.626232	.641104	.653246	.663665	.675640	.683703	.700078	.706359	.719606	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
200	125	.650798	.665419	.677331	.687535	.699240	.707108	.723055	.729159	.742010
	130	.675282	.689610	.701258	.711216	.722618	.730269	.745740	.751649	.764067
	135	.699682	.713673	.725020	.734702	.745765	.753173	.768120	.773816	.785761
	140	.723992	.737599	.748608	.757981	.768666	.775808	.790179	.795643	.807074
	145	.748206	.761381	.772010	.781039	.791308	.798156	.811897	.817106	.827981
	150	.772317	.785006	.795212	.803859	.813668	.820193	.833245	.838178	.848449
	155	.796316	.808459	.818195	.826419	.835721	.841891	.854190	.858823	.868438
	160	.820188	.831722	.840933	.848689	.857431	.863212	.874688	.878993	.887897
	165	.843918	.854768	.863395	.870631	.878754	.884105	.894677	.898626	.906755
	170	.867482	.877562	.885535	.892191	.899626	.904502	.914079	.917635	.924918
	175	.890846	.900053	.907287	.913297	.919958	.924304	.932777	.935899	.942251
	180	.913959	.922165	.928556	.933819	.939614	.943363	.950597	.953236	.958554
	185	.936738	.943770	.949178	.953582	.958374	.961438	.967260	.969352	.973508
	190	.959023	.964629	.968853	.972228	.975825	.978079	.982251	.983710	.986534
	195	.980428	.984167	.986856	.988913	.991001	.992248	.994410	.995115	.996392
200	.998885	.999473	.999744	.999873	.999950	.999975	.999995	.999997	.999999	
210	105	.526608	.541714	.554146	.564888	.577321	.585745	.602992	.609657	.623811
	110	.550300	.565322	.577664	.588312	.600616	.608942	.625960	.632526	.646449
	115	.573926	.588831	.601053	.611583	.623732	.631941	.648691	.655143	.668805
	120	.597486	.612238	.624314	.634701	.646666	.654740	.671183	.677506	.690876
	125	.620979	.635543	.647443	.657662	.669416	.677334	.693432	.699612	.712657
	130	.644402	.658744	.670438	.680464	.691976	.699721	.715433	.721454	.734143
	135	.667754	.681835	.693294	.703102	.714342	.721897	.737178	.743024	.755324
	140	.691032	.704814	.716006	.725567	.736505	.743839	.758656	.764311	.776187
	145	.714233	.727675	.738567	.747853	.758456	.765552	.779855	.785302	.796718
	150	.737350	.750411	.760967	.769949	.780181	.787016	.800758	.805979	.816897
	155	.760380	.773013	.783196	.791841	.801666	.808215	.821345	.826321	.836701
	160	.783314	.795469	.805240	.813512	.822890	.829126	.841591	.846299	.856097
	165	.806143	.817766	.827079	.834941	.843828	.849721	.861460	.865880	.875049
	170	.828854	.839885	.848690	.856100	.864447	.869965	.880912	.885018	.893505
	175	.851432	.861802	.870043	.876951	.884703	.889808	.899889	.903652	.911398
180	.873854	.883482	.891093	.897444	.904537	.909186	.918314	.921702	.928639	
185	.896089	.904877	.911779	.917506	.923861	.928004	.936076	.939050	.945099	
190	.918097	.925914	.932009	.937026	.942549	.946121	.953012	.955525	.960588	
195	.939769	.946473	.951628	.955825	.960390	.963308	.968853	.970844	.974800	
200	.960983	.966326	.970350	.973565	.976991	.979137	.983110	.984498	.987187	
205	.981362	.984924	.987486	.989444	.991433	.992620	.994679	.995350	.996566	
210	.998938	.999498	.999756	.999879	.999952	.999976	.999995	.999998	1.000000	
220	110	.526051	.540813	.552964	.563465	.575621	.583859	.600731	.607254	.621109
	115	.548672	.563358	.575426	.585842	.597881	.606030	.622692	.629125	.642770
	120	.571235	.585814	.597775	.608083	.619981	.628024	.644443	.650772	.664179
	125	.593738	.608180	.620008	.630187	.641919	.649839	.665981	.672193	.685335
	130	.616181	.630455	.642125	.652153	.663694	.671474	.687304	.693386	.706234
	135	.638563	.652637	.664123	.673977	.685301	.692924	.708406	.714344	.726870
	140	.660883	.674724	.685998	.695656	.706735	.714183	.729281	.735061	.747235
	145	.683136	.696711	.707747	.717184	.727992	.735246	.749921	.755530	.767321
	150	.705322	.718594	.729362	.738554	.749062	.756102	.770317	.775738	.787116
	155	.727436	.740369	.750838	.759758	.769935	.776742	.790454	.795672	.806603
	160	.749474	.762027	.772166	.780786	.790601	.797153	.810318	.815316	.825764
	165	.771429	.783561	.793334	.801625	.811042	.817316	.829888	.834648	.844576
	170	.793296	.804960	.814329	.822258	.831241	.837211	.849138	.853642	.863009
	175	.815064	.826210	.835134	.842664	.851172	.856811	.868039	.872264	.881025
	180	.836723	.847293	.855725	.862818	.870804	.876081	.886547	.890470	.898577
185	.858256	.868186	.876073	.882682	.890096	.894976	.904609	.908203	.915600	
190	.879642	.888855	.896136	.902209	.908988	.913431	.922151	.925386	.932008	
195	.900851	.909257	.915856	.921329	.927402	.931359	.939067	.941906	.947679	
200	.921837	.929319	.935143	.939937	.945212	.948623	.955201	.957599	.962431	
205	.942522	.948929	.953853	.957861	.962219	.965005	.970298	.972198	.975973	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
220	210	.962764	.967867	.971710	.974779	.978049	.980098	.983889	.985214	.987780
	215	.982211	.985612	.988058	.989927	.991825	.992958	.994923	.995563	.996724
	220	.998986	.999521	.999767	.999885	.999954	.999977	.999995	.999998	1.000000
230	115	.525529	.539970	.551857	.562132	.574029	.582093	.598613	.605002	.618577
	120	.547172	.561543	.573355	.583552	.595342	.603324	.619653	.625959	.639342
	125	.568762	.583036	.594751	.604850	.616511	.624397	.640504	.646716	.659881
	130	.590299	.604449	.616043	.626025	.637536	.645310	.661165	.667270	.680193
	135	.611782	.625781	.637232	.647077	.658415	.666062	.681633	.687619	.700275
	140	.633211	.647030	.658315	.668003	.679144	.686649	.701904	.707760	.720123
	145	.654584	.668193	.679288	.688799	.699720	.707066	.721973	.727687	.739730
	150	.675899	.689269	.700149	.709462	.720137	.727309	.741835	.747392	.759089
	155	.697154	.710253	.720893	.729985	.740390	.747370	.761479	.766868	.778190
	160	.718346	.731142	.741514	.750363	.760471	.767240	.780897	.786102	.797021
	165	.739471	.751929	.762006	.770586	.780370	.786910	.800076	.805083	.815567
	170	.760526	.772609	.782360	.790646	.800074	.806365	.818999	.823793	.833809
	175	.781503	.793172	.802564	.810528	.819570	.825590	.837648	.842212	.851725
	180	.802398	.813608	.822607	.830218	.838838	.844564	.855998	.860314	.869285
	185	.823200	.833905	.842471	.849696	.857855	.863261	.874019	.878066	.886455
	190	.843899	.854045	.862134	.868936	.876591	.881648	.891672	.895428	.903187
	195	.864480	.874005	.881568	.887903	.895005	.899680	.908903	.912343	.919421
	200	.884921	.893755	.900732	.906551	.913043	.917297	.925643	.928738	.935073
205	.905196	.913251	.919572	.924813	.930627	.934414	.941790	.944506	.950028	
210	.925258	.932425	.938002	.942590	.947639	.950903	.957195	.959489	.964110	
215	.945035	.951168	.955882	.959717	.963887	.966553	.971614	.973431	.977041	
220	.964390	.969274	.972951	.975887	.979015	.980975	.984600	.985867	.988320	
225	.982987	.986240	.988579	.990368	.992183	.993267	.995145	.995758	.996867	
230	.999030	.999542	.999777	.999890	.999956	.999978	.999996	.999998	1.000000	
240	120	.525038	.539177	.550818	.560881	.572534	.580435	.596625	.602888	.616199
	125	.545783	.559858	.571430	.581421	.592977	.600803	.616817	.623004	.636138
	130	.566481	.580468	.591951	.601853	.613291	.621028	.636839	.642939	.655874
	135	.587131	.601006	.612379	.622174	.633475	.641110	.656690	.662693	.675406
	140	.607733	.621470	.632714	.642385	.653527	.661047	.676368	.682263	.694732
	145	.628287	.641861	.652953	.662482	.673446	.680836	.695870	.701646	.713847
	150	.648790	.662175	.673095	.682464	.693227	.700474	.715191	.720837	.732747
	155	.669242	.682411	.693137	.702326	.712868	.719955	.734326	.739830	.751425
	160	.689640	.702565	.713075	.722064	.732362	.739275	.753269	.758619	.769874
	165	.709982	.722635	.732904	.741674	.751703	.758427	.772011	.777195	.788083
	170	.730266	.742616	.752619	.761147	.770884	.777401	.790541	.795547	.806041
	175	.750488	.762502	.772213	.780478	.789896	.796188	.808849	.813662	.823733
	180	.770643	.782287	.791678	.799654	.808725	.814775	.826918	.831523	.841141
	185	.790726	.801964	.811004	.818665	.827359	.833146	.844729	.849111	.858243
	190	.810731	.821521	.830177	.837495	.845779	.851280	.862260	.866402	.875011
	195	.830650	.840947	.849182	.856125	.863963	.869154	.879480	.883363	.891410
	200	.850471	.860224	.867997	.874530	.881881	.886735	.896353	.899956	.907396
	205	.870180	.879332	.886596	.892678	.899495	.903980	.912827	.916126	.922911
210	.889757	.898241	.904939	.910523	.916752	.920832	.928835	.931802	.937874	
215	.909175	.916908	.922974	.928002	.933578	.937210	.944280	.946883	.952174	
220	.928392	.935269	.940619	.945019	.949860	.952989	.959020	.961218	.965644	
225	.947338	.953220	.957740	.961417	.965414	.967969	.972819	.974560	.978018	
230	.965880	.970562	.974087	.976901	.979899	.981777	.985251	.986464	.988814	
235	.983697	.986816	.989058	.990771	.992511	.993549	.995349	.995936	.996999	
240	.999071	.999561	.999786	.999895	.999958	.999979	.999996	.999998	1.000000	
250	125	.524575	.538430	.549839	.559703	.571127	.578874	.594753	.600897	.613958
	130	.544494	.558291	.569636	.579434	.590768	.598446	.614163	.620236	.633135
	135	.564370	.578087	.589350	.599066	.610293	.617890	.633419	.639413	.652128
	140	.584204	.597817	.608981	.618599	.629700	.637203	.652521	.658426	.670937
	145	.603994	.617482	.628528	.638032	.648988	.656386	.671467	.677273	.689560

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
250	150	.623740	.637080	.647988	.657364	.668156	.675436	.690254	.695951	.707993	
	155	.643441	.656610	.667362	.676590	.687201	.694349	.708878	.714456	.726232	
	160	.663096	.676069	.686645	.695710	.706120	.713123	.727336	.732785	.744273	
	165	.682703	.695456	.705835	.714720	.724907	.731752	.745621	.750930	.762108	
	170	.702260	.714767	.724928	.733614	.743558	.750231	.763728	.768885	.779729	
	175	.721766	.733999	.743921	.752389	.762068	.768553	.781647	.786642	.797127	
	180	.741216	.753148	.762807	.771036	.780427	.786710	.799369	.804189	.814291	
	185	.760609	.772209	.781579	.789549	.798627	.804690	.816882	.821514	.831205	
	190	.779939	.791174	.800230	.807918	.816657	.822483	.834171	.838602	.847852	
	195	.799201	.810038	.818750	.826131	.834503	.840072	.851217	.855432	.864211	
	200	.818390	.828789	.837127	.844173	.852147	.857439	.867999	.871981	.880254	
	205	.837497	.847415	.855344	.862027	.869567	.874559	.884487	.888219	.895550	
	210	.856511	.865902	.873382	.879667	.886736	.891402	.900646	.904107	.911254	
	215	.875419	.884227	.891214	.897063	.903616	.907927	.916426	.919595	.926110	
	220	.894203	.902363	.908803	.914171	.920157	.924077	.931764	.934613	.940443	
	225	.912835	.920269	.926099	.930931	.936288	.939776	.946566	.949065	.954144	
	230	.931274	.937884	.943024	.947251	.951900	.954905	.960695	.962805	.967053	
	235	.949455	.955106	.959448	.962979	.966817	.969270	.973926	.975597	.978915	
	240	.967250	.971747	.975132	.977834	.980712	.982514	.985849	.987013	.989268	
	245	.984351	.987345	.989498	.991143	.992812	.993809	.995537	.996100	.997120	
	250	.999108	.999579	.999795	.999899	.999960	.999980	.999996	.999998	1.000000	
	260	130	.524137	.537726	.548916	.558592	.569800	.577402	.592986	.599018	.611843
		135	.543293	.556828	.567959	.577574	.588700	.596238	.611672	.617639	.630314
		140	.562411	.575871	.586928	.596468	.607493	.614957	.630219	.636112	.648618
		145	.581489	.594856	.605821	.615271	.626181	.633558	.648626	.654436	.666755
150		.600529	.613781	.624637	.633984	.644761	.652041	.666891	.672611	.684722	
155		.619528	.632645	.643377	.652604	.663232	.670404	.685012	.690632	.702518	
160		.638487	.651448	.662037	.671130	.681592	.688643	.702987	.708498	.720140	
165		.657405	.670188	.680616	.689561	.699838	.706757	.720811	.726204	.737581	
170		.676279	.688862	.699111	.707891	.717966	.724741	.738481	.743745	.754838	
175		.695109	.707468	.717520	.726119	.735973	.742590	.755990	.761116	.771904	
180		.713893	.726005	.735839	.744240	.753852	.760299	.773332	.778310	.788770	
185		.732627	.744467	.754062	.762248	.771599	.777861	.790499	.795317	.805428	
190		.751311	.762851	.772186	.780137	.789204	.795268	.807481	.812128	.821864	
195		.769940	.781152	.790204	.797899	.806660	.812510	.824265	.828730	.838066	
200		.788510	.799363	.808107	.815526	.823956	.829574	.840839	.845108	.854017	
205		.807016	.817478	.825886	.833005	.841077	.846446	.857184	.861243	.869695	
210		.825452	.835487	.843529	.850323	.858008	.863107	.873278	.877112	.885075	
215		.843811	.853378	.861022	.867467	.874727	.879535	.889094	.892686	.900125	
220		.862082	.871135	.878344	.884399	.891207	.895699	.904597	.907927	.914803	
225		.880252	.888740	.895470	.901103	.907412	.911561	.919740	.922788	.929055	
230		.898304	.906164	.912366	.917533	.923295	.927067	.934461	.937202	.942808	
235		.916210	.923369	.928981	.933631	.938785	.942141	.948672	.951075	.959558	
240		.933933	.940295	.945241	.949308	.953781	.956670	.962238	.964267	.968351	
245		.951408	.956846	.961023	.964420	.968111	.970469	.974946	.976552	.979742	
250		.968514	.972840	.976095	.978694	.981461	.983195	.986400	.987520	.989687	
255	.984954	.987834	.989903	.991485	.993091	.994049	.995710	.996251	.997232		
260	.999142	.999595	.999803	.999903	.999961	.999981	.999996	.999998	1.000000		
270	135	.523723	.537059	.548043	.557541	.568545	.576009	.591315	.597240	.609843	
	140	.542172	.555458	.566388	.575830	.586757	.594162	.609329	.615194	.627657	
	145	.560586	.573805	.584665	.594037	.604873	.612209	.627217	.633014	.645319	
	150	.578965	.592097	.602873	.612163	.622892	.630149	.644977	.650697	.662829	
	155	.597309	.610336	.621012	.630207	.640813	.647981	.662608	.668244	.680186	
	160	.615616	.628519	.639081	.648166	.658636	.665703	.680108	.685653	.697387	
	165	.633887	.646647	.657078	.666041	.676357	.683314	.697476	.702920	.714429	
	170	.652119	.664717	.675001	.683828	.693976	.700811	.714707	.720042	.731308	
	175	.670313	.682729	.692850	.701526	.711488	.718191	.731799	.737016	.748020	
	180	.688467	.700680	.710620	.719130	.728890	.735450	.748746	.753837	.764560	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
270	185	.706580	.718567	.728309	.736639	.746179	.752583	.765543	.770498	.780921	
	190	.724649	.736388	.745914	.754047	.763349	.769584	.782183	.786992	.797095	
	195	.742672	.754140	.763429	.771349	.780393	.786447	.798658	.803312	.813072	
	200	.760647	.771818	.780851	.788540	.797305	.803164	.814959	.819446	.828842	
	205	.778570	.789418	.798172	.805610	.814076	.819725	.831075	.835383	.844390	
	210	.796438	.806934	.815385	.822553	.830695	.836119	.846990	.851109	.859700	
	215	.814245	.824357	.832481	.839356	.847149	.852330	.862689	.866604	.874753	
	220	.831986	.841681	.849447	.856006	.863422	.868342	.878150	.881846	.889522	
	225	.849653	.858891	.866270	.872485	.879494	.884131	.893347	.896809	.903977	
	230	.867237	.875976	.882932	.888772	.895338	.899669	.908245	.911455	.918078	
	235	.884724	.892914	.899406	.904838	.910920	.914919	.922801	.925737	.931773	
	240	.902098	.909680	.915660	.920642	.926195	.929830	.936953	.939593	.944991	
	245	.919334	.926236	.931646	.936128	.941094	.944327	.950617	.952932	.957633	
	250	.936394	.942526	.947293	.951211	.955520	.958303	.963665	.965618	.969551	
	255	.953216	.958457	.962480	.965752	.969308	.971579	.975889	.977436	.980506	
	260	.969684	.973852	.976987	.979490	.982155	.983824	.986910	.987988	.990074	
	265	.985512	.988286	.990279	.991802	.993348	.994271	.995870	.996391	.997335	
	270	.999174	.999610	.999810	.999906	.999963	.999981	.999996	.999998	1.000000	
	280	140	.523329	.536427	.547215	.556545	.567356	.574690	.589732	.595556	.607946
		145	.541122	.554174	.564911	.574189	.584929	.592208	.607121	.612889	.625149
		150	.558883	.571872	.582546	.591759	.602413	.609679	.624394	.630099	.642213
		155	.576612	.589521	.600117	.609254	.619810	.626952	.641550	.647185	.659138
		160	.594309	.607121	.617625	.626674	.637117	.644177	.658589	.664146	.675923
		165	.611972	.624671	.635069	.644018	.654335	.661302	.675509	.680981	.692566
		170	.629602	.642170	.652448	.661284	.671460	.678325	.692308	.697687	.709063
175		.647198	.659617	.669760	.678471	.688491	.695245	.708983	.714261	.725414	
180		.664758	.677010	.687004	.695577	.705427	.712059	.725531	.730701	.741613	
185		.682283	.694349	.704178	.712599	.722263	.728763	.741949	.747002	.757655	
190		.699770	.711630	.721278	.729534	.738996	.745353	.758231	.763159	.773536	
195		.717217	.728852	.738302	.746378	.755623	.761825	.774372	.779167	.789249	
200		.734624	.746012	.755247	.763128	.772137	.778174	.790366	.795017	.804786	
205		.751988	.763106	.772108	.779778	.788533	.794392	.806204	.810703	.820137	
210		.769306	.780131	.788879	.796323	.804805	.810472	.821877	.826214	.835292	
215		.786576	.797082	.805556	.812754	.820942	.826405	.837375	.841538	.850237	
220		.803792	.813953	.822130	.829064	.836936	.842178	.852683	.856661	.864957	
225		.820951	.830736	.838593	.845241	.852773	.857779	.867785	.871565	.879432	
230		.838048	.847424	.854933	.861272	.868438	.873190	.882661	.886229	.893637	
235		.855073	.864005	.871137	.877141	.883910	.888389	.897285	.900626	.907543	
240		.872020	.880465	.887186	.892827	.899156	.903348	.911624	.914721	.921111	
245		.888874	.896786	.903056	.908301	.914172	.918032	.925636	.928469	.934291	
250		.905620	.912942	.918716	.923524	.928883	.932391	.939263	.941809	.947015	
255		.922233	.928897	.934119	.938444	.943235	.946354	.952421	.954653	.959186	
260		.938678	.944597	.949196	.952977	.957133	.959817	.964988	.966871	.970662	
265	.954895	.959951	.963833	.966989	.970418	.972608	.976764	.978255	.981215		
270	.970771	.974791	.977815	.980228	.982798	.984407	.987383	.988422	.990434		
275	.986031	.988706	.990628	.992096	.993587	.994477	.996018	.996521	.997431		
280	.999203	.999624	.999817	.999910	.999964	.999982	.999996	.999998	1.000000		
290	145	.522955	.535826	.546429	.555600	.566227	.573438	.588229	.593957	.606145	
	150	.540137	.552965	.563521	.572643	.583204	.590363	.605034	.610710	.622777	
	155	.557289	.570059	.580554	.589618	.600100	.607200	.621733	.627350	.639282	
	160	.574412	.587109	.597533	.606525	.616915	.623947	.638326	.643877	.655659	
	165	.591506	.604113	.614453	.623363	.633649	.640604	.654810	.660290	.671908	
	170	.608569	.621072	.631314	.640131	.650300	.657170	.671186	.676587	.688023	
	175	.625602	.637984	.648115	.656829	.666868	.673643	.687452	.692766	.704017	
	180	.642603	.654848	.664856	.673454	.683349	.690022	.703604	.708826	.719865	
	185	.659572	.671664	.681534	.690005	.699744	.706304	.719641	.724763	.735579	
	190	.676509	.688430	.698149	.706480	.716048	.722486	.735559	.740573	.751151	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
290	195	.693412	.705145	.714697	.722876	.732259	.738566	.751355	.756253	.766576
	200	.710279	.721806	.731176	.739191	.748373	.754538	.767023	.771798	.781849
	205	.727109	.738410	.747584	.755420	.764386	.770400	.782558	.787202	.796964
	210	.743901	.754957	.763917	.771560	.780294	.786144	.797954	.802458	.811912
	215	.760653	.771441	.780170	.787606	.796090	.801766	.813202	.817557	.826685
	220	.777360	.787859	.796339	.803552	.811768	.817256	.828295	.832491	.841272
	225	.794022	.804207	.812418	.819390	.827318	.832606	.843221	.847247	.855660
	230	.810633	.820479	.828399	.835113	.842732	.847805	.857966	.861813	.869833
	235	.827190	.836668	.844275	.850709	.857997	.862840	.872516	.876170	.883773
	240	.843687	.852766	.860033	.866166	.873097	.877693	.886849	.890298	.897456
	245	.860117	.868761	.875661	.881469	.888015	.892344	.900942	.904171	.910853
	250	.876470	.884641	.891141	.896596	.902775	.906766	.914764	.917755	.923927
	255	.892736	.900388	.906450	.911520	.917195	.920925	.928271	.931007	.936629
	260	.908897	.915977	.921558	.926205	.931383	.934771	.941409	.943868	.948894
	265	.924931	.931372	.936419	.940597	.945226	.948238	.954097	.956252	.960629
	270	.940904	.946523	.950966	.954619	.958632	.961225	.966218	.968036	.971696
	275	.956457	.961341	.965091	.968139	.971450	.973565	.977577	.979017	.981874
	280	.971782	.975664	.978585	.980915	.983397	.984950	.987823	.988826	.990768
	285	.986513	.989096	.990952	.992370	.993809	.994668	.996157	.996641	.997520
	290	.999231	.999637	.999823	.999913	.999965	.999983	.999997	.999998	1.000000
300	150	.522599	.535255	.545682	.554701	.565154	.572247	.586799	.592436	.604431
	155	.539210	.551826	.562209	.571183	.581573	.588619	.603059	.608647	.620529
	160	.555794	.568356	.578684	.587602	.597919	.604909	.619221	.624754	.636510
	165	.572351	.584845	.595106	.603959	.614191	.621117	.635285	.640757	.652373
	170	.588881	.601293	.611475	.620252	.630387	.637242	.651250	.656655	.668119
	175	.605384	.617699	.627791	.636481	.646508	.653284	.667115	.672447	.683745
	180	.621858	.634062	.644051	.652646	.662552	.669241	.682879	.688131	.699250
	185	.638304	.650381	.660256	.668744	.678518	.685111	.698540	.703706	.714632
	190	.654720	.666656	.676404	.684775	.694404	.700893	.714095	.719168	.728887
	195	.671107	.682886	.692494	.700736	.710207	.716584	.729542	.734515	.745013
	200	.687462	.699069	.708524	.716626	.725926	.732182	.744876	.749743	.760005
	205	.703786	.715203	.724491	.732442	.741557	.747682	.760096	.764849	.774860
	210	.720076	.731286	.740394	.748180	.757097	.763082	.775195	.779826	.789571
	215	.736332	.747317	.756229	.763838	.772541	.778376	.790168	.794671	.804132
	220	.752551	.763292	.771992	.779412	.787886	.793560	.805010	.809375	.818535
	225	.768731	.779208	.787681	.794896	.803124	.808627	.819712	.823931	.832772
	230	.784871	.795061	.803289	.810284	.818250	.823570	.834265	.838329	.846832
	235	.800966	.810848	.818812	.825571	.833255	.838379	.848660	.852559	.860703
	240	.817013	.826562	.834241	.840747	.848130	.853044	.862883	.866607	.874369
	245	.833009	.842197	.849570	.855804	.862863	.867552	.876919	.880455	.887812
250	.848947	.857745	.864786	.870727	.877438	.881887	.890749	.894085	.901010	
255	.864820	.873195	.879878	.885502	.891839	.896028	.904348	.907471	.913934	
260	.880621	.888535	.894828	.900109	.906040	.909951	.917687	.920581	.926549	
265	.896338	.903747	.909615	.914521	.920012	.923620	.930725	.933371	.938807	
270	.911954	.918807	.924207	.928704	.933713	.936990	.943408	.945786	.950645	
275	.927448	.933681	.938563	.942605	.947082	.949995	.955660	.957743	.961973	
280	.942787	.948320	.952618	.956150	.960031	.962537	.967364	.969122	.972659	
285	.957914	.962639	.966264	.969212	.972413	.974457	.978336	.979727	.982489	
290	.972725	.976480	.979303	.981557	.983955	.985457	.988233	.989203	.991079	
295	.986964	.989461	.991255	.992626	.994017	.994847	.996285	.996754	.997604	
300	.999256	.999649	.999829	.999916	.999966	.999983	.999997	.999998	1.000000	
310	155	.522259	.534711	.544969	.553845	.564131	.571112	.585437	.590986	.602799
	160	.538336	.550750	.560968	.569801	.580029	.586966	.601185	.606689	.618395
	165	.554388	.566753	.576919	.585699	.595859	.602744	.616844	.622296	.633884
	170	.570416	.582717	.592821	.601540	.611621	.618446	.632412	.637807	.649265
	175	.586418	.598643	.608674	.617323	.627313	.634073	.647889	.653222	.664537

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
310	180	.602395	.614530	.624478	.633047	.642936	.649622	.663274	.668539	.679699	
	185	.618347	.630378	.640231	.648711	.658489	.665093	.678566	.683756	.694750	
	190	.634272	.646187	.655933	.664315	.673969	.680485	.693763	.698873	.709687	
	195	.650170	.661954	.671584	.679856	.689376	.695796	.708863	.713887	.724509	
	200	.666041	.677680	.687181	.695334	.704708	.711023	.723864	.728795	.739212	
	205	.681883	.693363	.702722	.710746	.719962	.726165	.738763	.743595	.753793	
	210	.697697	.709002	.718208	.726092	.735137	.741219	.753556	.758283	.768248	
	215	.713480	.724595	.733634	.741367	.750229	.756181	.768240	.772855	.782573	
	220	.729232	.740140	.748999	.756569	.765234	.771048	.782811	.787306	.796762	
	225	.744951	.755635	.764300	.771695	.780149	.785816	.797262	.801631	.810809	
	230	.760635	.771077	.779533	.786740	.794969	.800478	.811588	.815822	.824706	
	235	.776282	.786463	.794694	.801700	.809688	.815028	.825781	.829873	.838444	
	240	.791890	.801790	.809780	.816570	.824300	.829461	.839833	.843773	.852015	
	245	.807456	.817053	.824783	.831343	.838797	.843766	.853734	.857513	.865404	
	250	.822977	.832247	.839698	.846010	.853169	.857934	.867470	.871078	.878598	
	255	.838448	.847364	.854516	.860562	.867406	.871951	.881028	.884454	.891579	
	260	.853864	.862399	.869227	.874986	.881492	.885803	.894388	.897620	.904325	
	265	.869218	.877340	.883818	.889269	.895410	.899469	.907527	.910552	.916809	
	270	.884502	.892174	.898274	.903391	.909137	.912925	.920417	.923218	.928996	
	275	.899705	.906886	.912572	.917325	.922644	.926137	.933017	.935579	.940840	
	280	.914813	.921452	.926684	.931039	.935889	.939062	.945276	.947577	.952280	
	285	.929802	.935840	.940568	.944482	.948816	.951636	.957119	.959135	.963229	
	290	.944642	.950000	.954161	.957581	.961338	.963764	.968435	.970136	.973559	
	295	.959277	.963852	.967362	.970215	.973313	.975291	.979045	.980391	.983063	
	300	.973608	.977242	.979975	.982156	.984477	.985930	.988617	.989555	.991371	
	305	.987385	.989802	.991538	.992865	.994211	.995014	.996406	.996860	.997682	
	310	.999280	.999660	.999835	.999918	.999968	.999984	.999997	.999998	1.000000	
	320	160	.521934	.534191	.544290	.553028	.563156	.570030	.584138	.589604	.601240
		165	.537511	.549732	.559793	.568491	.578564	.585397	.599406	.604829	.616366
		170	.553064	.565239	.575252	.583901	.593910	.600694	.614591	.619966	.631392
175		.568595	.580711	.590665	.599257	.609192	.615921	.629692	.635014	.646319	
180		.584102	.596147	.606034	.614560	.624411	.631078	.644710	.649973	.661144	
185		.599586	.611548	.621357	.629809	.639566	.646164	.659642	.664842	.675869	
190		.615046	.626913	.636633	.645002	.654655	.661178	.674489	.679619	.690491	
195		.630483	.642241	.651863	.660140	.669679	.676119	.689248	.694304	.705008	
200		.645894	.657531	.667044	.675221	.684634	.690985	.703919	.708894	.719418	
205		.661280	.672783	.682177	.690243	.699521	.705775	.718498	.723387	.733720	
210		.676641	.687996	.697259	.705205	.714337	.720486	.732983	.737781	.747910	
215		.691975	.703169	.712290	.720106	.729080	.735117	.747372	.752072	.761985	
220		.707281	.718300	.727266	.734943	.743747	.749664	.761662	.766257	.775941	
225		.722559	.733387	.742187	.749714	.758335	.764125	.775848	.780333	.789773	
230		.737807	.748428	.757050	.764415	.772842	.778495	.789926	.794293	.803476	
235		.753023	.763422	.771852	.779044	.787263	.792770	.803890	.808133	.817044	
240		.768207	.778366	.786589	.793596	.801593	.806945	.817736	.821847	.830469	
245		.783355	.793257	.801259	.808067	.815828	.821014	.831455	.835426	.843744	
250		.798466	.808091	.815855	.822452	.829960	.834970	.845039	.848862	.856857	
255		.813537	.822863	.830373	.836744	.843982	.848805	.858478	.862144	.869798	
260		.828564	.837570	.844806	.850935	.857884	.862508	.871760	.875260	.882552	
265		.843544	.852204	.859147	.865015	.871657	.876067	.884871	.888193	.895101	
270		.858470	.866758	.873385	.878974	.885285	.889467	.897792	.900926	.907426	
275		.873338	.881222	.887508	.892796	.898752	.902689	.910502	.913433	.919498	
280		.888139	.895584	.901501	.906464	.912036	.915708	.922971	.925686	.931285	
285		.902861	.909827	.915342	.919951	.925107	.928494	.935162	.937644	.942742	
290		.917491	.923931	.929004	.933226	.937927	.941003	.947024	.949253	.953809	
295		.932008	.937862	.942446	.946240	.950440	.953173	.958485	.960439	.964404	
300		.946390	.951574	.955608	.958921	.962562	.964913	.969438	.971086	.974401	
305		.960555	.964988	.968390	.971154	.974156	.976073	.979709	.981013	.983601	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
320	310	.674435	.977957	.980605	.982718	.984966	.986374	.988976	.989885	.991643
	315	.987780	.990127	.991804	.993089	.994393	.995171	.996519	.996958	.997754
	320	.999303	.999671	.999840	.999921	.999969	.999984	.999997	.999998	1.000000
330	165	.521623	.533694	.543641	.552247	.562274	.568996	.582896	.588283	.599751
	170	.536729	.548768	.558678	.567247	.577172	.583905	.597712	.603059	.614434
	175	.551814	.563808	.573674	.582197	.592062	.598749	.612451	.617753	.629024
	180	.566878	.578817	.588628	.597098	.606894	.613529	.627114	.632365	.643522
	185	.581920	.593793	.603541	.611949	.621666	.628244	.641698	.646894	.657976
	190	.596940	.608736	.618411	.626750	.636380	.642893	.656203	.661340	.672237
	195	.611939	.623645	.633239	.641500	.651033	.657476	.670630	.675702	.686453
	200	.626915	.638521	.648023	.656199	.665625	.671991	.684975	.689977	.700572
	205	.641869	.653362	.662763	.670845	.680154	.686437	.699239	.704166	.714593
	210	.656799	.668168	.677457	.685437	.694620	.700813	.713418	.718265	.728514
	215	.671706	.682938	.692106	.699974	.709021	.715116	.727511	.732273	.742332
	220	.686588	.697671	.706707	.714455	.723355	.729346	.741516	.746186	.756044
	225	.701445	.712365	.721259	.728877	.737620	.743500	.755430	.760003	.769647
	230	.716276	.727020	.735760	.743239	.751813	.757574	.769249	.773720	.783137
	235	.731079	.741633	.750207	.757537	.765931	.771565	.782970	.787331	.796509
	240	.745854	.756203	.764600	.771770	.779971	.785471	.796588	.800834	.809759
	245	.760600	.770728	.778934	.785934	.793930	.799286	.810098	.814222	.822880
	250	.775314	.785205	.793208	.800024	.807802	.813006	.823494	.827489	.835864
	255	.789994	.799631	.807415	.814038	.821583	.826624	.836769	.840627	.848705
	260	.804639	.814002	.821554	.827968	.835265	.840135	.849916	.853629	.861392
	265	.819245	.828315	.835617	.841809	.848843	.853529	.862923	.866483	.873913
270	.833809	.842565	.849599	.855554	.862306	.866796	.875780	.879178	.886256	
275	.848328	.856745	.863492	.869193	.875644	.879926	.888473	.891698	.898407	
280	.862796	.870848	.877287	.882715	.888843	.892903	.900984	.904025	.910331	
285	.877207	.884865	.890971	.896106	.901888	.905709	.913291	.916135	.922018	
290	.891553	.898784	.904529	.909347	.914755	.918320	.925366	.928000	.933431	
295	.905825	.912588	.917942	.922415	.927419	.930705	.937174	.939581	.944525	
300	.920007	.926258	.931181	.935278	.939840	.942823	.948664	.950826	.955244	
305	.934079	.939761	.944209	.947889	.951965	.954615	.959767	.961661	.965507	
310	.948012	.953052	.956965	.960180	.963711	.965991	.970380	.971977	.975191	
315	.961755	.966056	.969355	.972036	.974948	.976806	.980332	.981596	.984105	
320	.975212	.978628	.981196	.983245	.985476	.986791	.989314	.990195	.991899	
325	.988151	.990422	.992053	.993299	.994563	.995318	.996625	.997051	.997823	
330	.999324	.999681	.999845	.999923	.999970	.999985	.999997	.999998	1.000000	
340	170	.521326	.533219	.543020	.551500	.561332	.568006	.581708	.587018	.598327
	175	.535989	.547851	.557618	.566063	.575847	.582484	.596098	.601371	.612591
	180	.550633	.562454	.572178	.580580	.590308	.596902	.610417	.615647	.626769
	185	.565256	.577026	.586700	.595052	.604714	.611260	.624665	.629848	.640862
	190	.579860	.591568	.601182	.609477	.619066	.625557	.638840	.643971	.654869
	195	.594444	.606079	.615626	.623856	.633362	.639794	.652942	.658017	.668788
	200	.609007	.620560	.630030	.638188	.647603	.653969	.666970	.671985	.682619
	205	.623550	.635009	.644394	.652472	.661787	.668081	.680924	.685874	.696361
	210	.638072	.649426	.658717	.666707	.675914	.682130	.694802	.699681	.710012
	215	.652572	.663811	.672998	.680893	.689982	.696114	.708862	.713407	.723570
	220	.667051	.678163	.687236	.695028	.703490	.710031	.722323	.727048	.737034
	225	.681507	.692480	.701431	.709110	.717936	.723880	.735963	.740602	.750400
	230	.695940	.706762	.715581	.723139	.731819	.737659	.749518	.754067	.763666
	235	.710349	.721008	.729684	.737113	.745636	.751366	.762987	.767441	.776828
	240	.724733	.735216	.743738	.751029	.759384	.764997	.776366	.780718	.789883
	245	.739091	.749384	.757743	.764885	.773062	.778549	.789652	.793896	.802825
	250	.753422	.763511	.771694	.778679	.786666	.792020	.802839	.806970	.815651
	255	.767725	.777595	.785590	.792406	.800191	.805404	.815923	.819934	.828354
	260	.781997	.791634	.799427	.806063	.813633	.818697	.828899	.832783	.840926
	265	.796238	.805623	.813202	.819647	.826988	.831893	.841758	.845509	.853361



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
340	270	.810444	.819561	.826910	.833151	.840250	.844985	.854494	.858104	.865648
	275	.824613	.833442	.840546	.846570	.853410	.857966	.867098	.870557	.877776
	280	.838743	.847267	.854104	.859896	.866460	.870825	.879556	.882857	.889732
	285	.852828	.861016	.867577	.873120	.879390	.883552	.891856	.894989	.901500
	290	.866864	.874695	.880955	.886231	.892187	.896132	.903982	.906935	.913060
	295	.880846	.888292	.894226	.899217	.904834	.908546	.915911	.918673	.924386
	300	.894765	.901794	.907377	.912058	.917312	.920774	.927617	.930174	.935447
	305	.908612	.915185	.920387	.924732	.929592	.932783	.939064	.941402	.946201
	310	.922373	.928446	.933229	.937208	.941638	.944535	.952005	.952304	.956593
	315	.936078	.941547	.945867	.949441	.953398	.955971	.960972	.962811	.966543
	320	.949548	.954443	.958243	.961364	.964792	.967005	.971265	.972815	.975934
	325	.962884	.967060	.970263	.972866	.975692	.977496	.980918	.982145	.984580
	330	.975943	.979259	.981752	.983741	.985858	.987182	.989631	.990486	.992140
	335	.988500	.990704	.992287	.993497	.994724	.995456	.996725	.997138	.997887
	340	.999344	.999690	.999849	.999926	.999970	.999985	.999997	.999999	1.000000
350	175	.521040	.532763	.542424	.550785	.560478	.567059	.580570	.585807	.596961
	180	.535286	.546980	.556609	.564936	.574584	.581130	.594558	.599760	.610830
	185	.549513	.561168	.570758	.579044	.588639	.595145	.608480	.613642	.624620
	190	.563722	.575329	.584871	.593110	.602644	.609104	.622335	.627453	.638330
	195	.577912	.589461	.598948	.607134	.616598	.623007	.636123	.641192	.651959
	200	.592094	.603566	.612988	.621113	.630501	.636853	.649843	.654860	.665508
	205	.606237	.617641	.626992	.635049	.644352	.650642	.663495	.668455	.678974
	210	.620371	.631687	.640958	.648941	.658150	.664374	.677078	.681976	.692358
	215	.634485	.645704	.654887	.662788	.671895	.678046	.690590	.695422	.705657
	220	.648579	.659691	.668777	.676589	.685586	.691658	.704030	.708792	.718871
	225	.662653	.673646	.682628	.690342	.699221	.705208	.717397	.722084	.731996
	230	.676707	.687571	.696438	.704048	.712799	.718696	.730689	.735296	.745032
	235	.690739	.701463	.710206	.717704	.726319	.732119	.743903	.748426	.757576
	240	.704749	.715321	.723932	.731310	.739778	.745475	.757038	.761471	.770824
	245	.718736	.729145	.737613	.744862	.753175	.758762	.770090	.774429	.783573
250	.732700	.742932	.751248	.758360	.766507	.771977	.783056	.787295	.796220	
255	.746639	.756683	.764835	.771800	.779770	.785118	.795933	.800066	.808760	
260	.760552	.770393	.778372	.785180	.792963	.798179	.808716	.812738	.821188	
265	.774438	.784063	.791855	.798498	.806082	.811159	.821401	.825305	.833498	
270	.788295	.797688	.805283	.811748	.819121	.824051	.833981	.837762	.845684	
275	.802121	.811267	.818650	.824927	.832076	.836850	.846451	.850100	.857738	
280	.815914	.824796	.831954	.838030	.844940	.849549	.858802	.862313	.869650	
285	.829672	.838271	.845188	.851051	.857708	.862141	.871025	.874389	.881409	
290	.843391	.851687	.858347	.863983	.870371	.874617	.883109	.886318	.893003	
295	.857068	.865039	.871424	.876817	.882917	.886965	.895040	.898086	.904415	
300	.870698	.878320	.884410	.889543	.895335	.899171	.906803	.909674	.915627	
305	.884276	.891520	.897293	.902147	.907609	.911218	.918377	.921062	.926613	
310	.897793	.904629	.910059	.914611	.919719	.923085	.929736	.932221	.937344	
315	.911240	.917632	.922690	.926915	.931639	.934741	.940844	.943115	.947778	
320	.924604	.930509	.935159	.939026	.943332	.946147	.951657	.953696	.957852	
325	.937865	.943230	.947429	.950903	.954748	.957248	.962108	.963893	.967518	
330	.950996	.955753	.959446	.962479	.965810	.967960	.972098	.973604	.976634	
335	.963948	.968006	.971119	.973648	.976393	.978146	.981470	.982662	.985027	
340	.976632	.979854	.982277	.984209	.986265	.987552	.989930	.990761	.992367	
345	.988829	.990971	.992509	.993684	.994876	.995587	.996819	.997221	.997948	
350	.999333	.999699	.999853	.999928	.999971	.999986	.999997	.999999	1.000000	
360	180	.520767	.532326	.541854	.550099	.559659	.566150	.579479	.584646	.595652
	185	.534618	.546150	.555647	.563860	.573378	.579836	.593087	.598220	.609147
	190	.548451	.559948	.569407	.577583	.587050	.593470	.606633	.611728	.622568
	195	.562268	.573719	.583134	.591265	.600675	.607052	.620116	.625170	.635915
	200	.576068	.587464	.596827	.604908	.614252	.620582	.633538	.638546	.649187

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
360	205	.589950	.601183	.610486	.618510	.627782	.634058	.646896	.651855	.662383
	210	.603615	.614875	.624111	.632072	.641264	.647482	.660191	.665096	.675504
	215	.617362	.628540	.637702	.645592	.654697	.660852	.673421	.678268	.688547
	220	.631090	.642178	.651257	.659070	.668080	.674167	.686585	.691371	.701512
	225	.644801	.655788	.664776	.672506	.681413	.687426	.699683	.704403	.714397
	230	.658492	.669369	.678259	.685899	.694694	.700628	.712713	.717363	.727200
	235	.672165	.682921	.691704	.699246	.707923	.713771	.725673	.730249	.739921
	240	.685818	.696443	.705111	.712549	.721097	.726856	.738562	.743058	.752555
	245	.699450	.709934	.718479	.725804	.734216	.739878	.751378	.755790	.765102
	250	.713062	.723393	.731805	.739010	.747277	.752837	.764117	.768441	.777559
	255	.726651	.736820	.745090	.752166	.760279	.765730	.776777	.781008	.789920
	260	.740218	.750211	.758330	.765270	.773218	.778554	.789356	.793488	.802185
	265	.753762	.763567	.771524	.778319	.786093	.791306	.801849	.805877	.814346
	270	.767281	.776886	.784670	.791310	.798899	.803984	.814252	.818171	.826401
	275	.780773	.790164	.797765	.804241	.811634	.816582	.826561	.830364	.838343
	280	.794238	.803400	.810806	.817108	.824293	.829097	.838770	.842452	.850165
	285	.807674	.816592	.823789	.829907	.836872	.841522	.850873	.854426	.861860
	290	.821077	.829736	.836711	.842632	.849363	.853852	.862861	.866279	.873420
	295	.834447	.842827	.849567	.855279	.861762	.866078	.874726	.878001	.884832
	300	.847780	.855862	.862350	.867839	.874058	.878192	.886457	.889581	.896085
	305	.861071	.868836	.875054	.880305	.886243	.890183	.898042	.901005	.907162
	310	.874318	.881740	.887670	.892667	.898305	.902038	.909464	.912257	.918047
	315	.887513	.894567	.900187	.904911	.910227	.913739	.920703	.923314	.928713
	320	.900651	.907306	.912591	.917020	.921991	.925264	.931734	.934151	.939133
	325	.913720	.919947	.924863	.928974	.933570	.936587	.942523	.944732	.949266
	330	.926709	.932456	.936980	.940742	.944930	.947668	.953026	.955009	.959059
	335	.939600	.944819	.948904	.952282	.956022	.958453	.963178	.964915	.968439
	340	.952363	.956991	.960582	.963532	.966771	.968862	.972885	.974349	.977294
	345	.964953	.968900	.971927	.974386	.977056	.978759	.981991	.983150	.985448
	350	.977283	.980416	.982772	.984650	.986649	.987900	.990213	.991020	.992582
355	.989140	.991222	.992717	.993860	.995019	.995710	.996908	.997298	.998005	
360	.999380	.999707	.999858	.999930	.999972	.999986	.999997	.999999	1.000000	
370	185	.520503	.531907	.541305	.549440	.558872	.565277	.578430	.583530	.594394
	190	.533981	.545358	.554729	.562833	.572225	.578599	.591678	.596746	.607535
	195	.547443	.558786	.568121	.576190	.585534	.591872	.604868	.609900	.620607
	200	.560889	.572189	.581482	.589509	.598799	.605097	.618000	.622993	.633609
	205	.574318	.585568	.594812	.602791	.612020	.618272	.631074	.636023	.646542
	210	.587732	.598922	.608110	.616036	.625197	.631399	.644088	.648991	.659404
	215	.601129	.612251	.621376	.629242	.638328	.644476	.657044	.661896	.672195
	220	.614509	.625555	.634610	.642410	.651414	.657502	.669939	.674737	.684914
	225	.627873	.638833	.647811	.655539	.664454	.670477	.682773	.687513	.697560
	230	.641220	.652086	.660978	.668629	.677446	.683401	.695545	.700223	.710132
	235	.654549	.665312	.674112	.681678	.690391	.696271	.708254	.712866	.722628
	240	.667861	.678511	.687211	.694685	.703287	.709088	.720898	.725440	.735047
	245	.681154	.691682	.700275	.707651	.716133	.721849	.733476	.737944	.747387
	250	.694428	.704824	.713302	.720573	.728927	.734553	.745986	.750376	.759645
	255	.707683	.717937	.726291	.733450	.741668	.747198	.758426	.762733	.771820
	260	.720918	.731020	.739241	.746280	.754355	.759783	.770793	.775012	.783907
	265	.734132	.744071	.752151	.759063	.766984	.772305	.783065	.787212	.795905
	270	.747325	.757089	.765018	.771795	.779553	.784761	.795299	.799329	.807809
	275	.760495	.770073	.777842	.784475	.792061	.797148	.807431	.811358	.819615
	280	.773641	.783020	.790619	.797099	.804504	.809463	.819476	.823296	.831318
	285	.786762	.795930	.803347	.809666	.816877	.821702	.831431	.835138	.842913
	290	.799857	.808799	.816024	.822171	.829178	.833861	.843290	.846877	.854393
	295	.812923	.821625	.828645	.834611	.841401	.845934	.855046	.858508	.865751
	300	.825959	.834404	.841207	.846979	.853541	.857915	.866693	.870022	.876977
	305	.838961	.847134	.853705	.859272	.865590	.869796	.878221	.881410	.888062

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
370	310	.851928	.859809	.866133	.871482	.877542	.881569	.889619	.892661	.898994
	315	.864856	.872425	.878485	.883601	.889386	.893224	.900877	.903762	.909756
	320	.877740	.884974	.890751	.895619	.901110	.904746	.911976	.914695	.920331
	325	.890575	.897448	.902922	.907523	.912700	.916120	.922900	.925442	.930696
	330	.903353	.909836	.914984	.919297	.924137	.927324	.933621	.935974	.940822
	335	.916066	.922126	.926918	.930921	.935395	.938332	.944109	.946259	.950671
	340	.928701	.934297	.938701	.942364	.946441	.949106	.954320	.956249	.960190
	345	.941240	.946322	.950298	.953587	.957226	.959593	.964190	.965880	.969309
	350	.953656	.958160	.961656	.964527	.967679	.969714	.973678	.975053	.977918
	355	.965903	.969745	.972691	.975084	.977682	.979339	.982483	.983611	.985647
360	.977898	.980948	.983240	.985068	.987012	.988230	.990479	.991265	.992784	
365	.989434	.991460	.992915	.994026	.995154	.995827	.996992	.997372	.998060	
370	.999397	.999715	.999861	.999932	.999973	.999986	.999997	.999999	1.000000	
380	190	.520250	.531503	.540778	.548806	.558116	.564439	.577423	.582458	.593185
	195	.533374	.544603	.553851	.561851	.571122	.577415	.590329	.595334	.605990
	200	.546483	.557679	.566894	.574860	.584087	.590346	.603181	.608152	.618730
	205	.559577	.570733	.579909	.587835	.597011	.603231	.615979	.620913	.631405
	210	.572656	.583765	.592894	.600775	.609893	.616071	.628722	.633615	.644015
	215	.585720	.596773	.605849	.613680	.622734	.628864	.641410	.646259	.656559
	220	.598769	.609757	.618774	.626550	.635532	.641611	.654043	.658844	.669037
	225	.611802	.622719	.631670	.639383	.648288	.654312	.666620	.671370	.681447
	230	.624820	.635656	.644535	.652180	.661002	.666964	.679139	.683834	.693789
	235	.637821	.648569	.657369	.664941	.673671	.679568	.691601	.696238	.706062
240	.650807	.661458	.670171	.677663	.686296	.692123	.704004	.708578	.718265	
245	.663776	.674321	.682941	.690347	.698875	.704628	.716346	.720855	.730396	
250	.676727	.687159	.695677	.702992	.711408	.717081	.728627	.733067	.742453	
255	.689662	.699970	.708380	.715597	.723892	.729481	.740845	.745211	.754434	
260	.702578	.712754	.721048	.728160	.736328	.741827	.752998	.757286	.766338	
265	.715476	.725510	.733680	.740680	.748713	.754117	.765084	.769290	.778161	
270	.728355	.738236	.746275	.753155	.761045	.766348	.777101	.781220	.789902	
275	.741214	.750933	.758831	.765585	.773323	.778520	.789046	.793074	.801556	
280	.754053	.763597	.771346	.777966	.785544	.790628	.800915	.804888	.813121	
285	.766869	.776229	.783819	.790297	.797705	.802671	.812706	.816538	.824591	
290	.779663	.788826	.796248	.802576	.809803	.814644	.824414	.828140	.835963	
295	.792432	.801387	.808629	.814798	.821836	.826544	.836034	.839650	.847231	
300	.805176	.813908	.820961	.826961	.833798	.838367	.847563	.851061	.858388	
305	.817893	.826388	.833240	.839061	.845685	.850107	.858992	.862367	.869427	
310	.830580	.838823	.845461	.851093	.857492	.861758	.870316	.873561	.880340	
315	.843236	.851211	.857621	.863051	.869212	.873313	.881525	.884634	.891116	
320	.855857	.863545	.869713	.874930	.880838	.884764	.892610	.895574	.901744	
325	.868440	.875822	.881732	.886720	.892359	.896100	.903558	.906369	.912209	
330	.880981	.888035	.893668	.898413	.903765	.907308	.914353	.917002	.922492	
335	.893474	.900175	.905512	.909996	.915041	.918373	.924978	.927454	.932572	
340	.905912	.912232	.917249	.921453	.926168	.929273	.935408	.937699	.942420	
345	.918298	.924193	.928864	.932763	.937122	.939983	.945611	.947704	.952000	
350	.930587	.936040	.940331	.943899	.947871	.950466	.955544	.957423	.961260	
355	.942793	.947745	.951618	.954822	.958366	.960671	.965148	.966793	.970132	
360	.954880	.959268	.962674	.965469	.968539	.970520	.974332	.975719	.978509	
365	.966804	.970545	.973414	.975745	.978274	.979889	.982950	.984047	.986224	
370	.978482	.981451	.983683	.985463	.987357	.988542	.990732	.991497	.992976	
375	.989712	.991685	.993102	.994184	.995282	.995937	.997072	.997441	.998111	
380	.999413	.999723	.999865	.999933	.999974	.999987	.999997	.999999	1.000000	
390	195	.520006	.531115	.540271	.548197	.557389	.563632	.576454	.581426	.592021
	200	.532794	.543880	.553011	.560910	.570065	.576280	.589036	.593979	.604507
	205	.545569	.556624	.565723	.573590	.582703	.588885	.601567	.606478	.616932
	210	.558329	.569346	.578408	.586238	.595303	.601449	.614047	.618923	.629296
	215	.571076	.582047	.591066	.598853	.607863	.613969	.626476	.631314	.641599

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
390	220	.583808	.594727	.603696	.611435	.620385	.626446	.638853	.643649	.653840
	225	.596526	.607385	.616297	.623984	.632867	.638879	.651178	.655930	.666019
	230	.609229	.620020	.628871	.636500	.645309	.651269	.663451	.668154	.678135
	235	.621918	.632634	.641416	.648981	.657712	.663614	.675671	.680322	.690187
	240	.634592	.645225	.653933	.661428	.670073	.675914	.687837	.692433	.702174
	245	.647250	.657793	.666419	.673840	.682393	.688168	.699947	.704485	.714096
	250	.659894	.670337	.678876	.686216	.694670	.700375	.712002	.716477	.725951
	255	.672521	.682857	.691301	.698555	.706904	.712534	.723999	.728409	.737737
	260	.685132	.695353	.703696	.710857	.719093	.724644	.735938	.740278	.749453
	265	.697727	.707823	.716058	.723120	.731237	.736704	.747816	.752083	.761097
	270	.710305	.720268	.728386	.735344	.743334	.748711	.759632	.763822	.772666
	275	.722865	.732685	.740680	.747527	.755382	.760665	.771384	.775493	.784159
	280	.735406	.745075	.752938	.759667	.767380	.772563	.783070	.787093	.795572
	285	.747928	.757435	.765159	.771762	.779325	.784404	.794686	.798620	.806902
	290	.760431	.769766	.777341	.783812	.791216	.796183	.806230	.810070	.818146
	295	.772913	.782064	.789483	.795813	.803050	.807900	.817699	.821439	.829300
	300	.785372	.794329	.801581	.807763	.814823	.819550	.829088	.832725	.840359
	305	.797809	.806559	.813635	.819660	.826532	.831129	.840393	.843920	.851317
	310	.810220	.818751	.825640	.831499	.838174	.842634	.851608	.855022	.862169
	315	.822606	.830904	.837594	.843278	.849744	.854059	.862729	.866021	.872907
320	.834963	.843013	.849493	.854990	.861236	.865398	.873747	.876913	.883523	
325	.847289	.855076	.861333	.866632	.872644	.876645	.884655	.887687	.894008	
330	.859583	.867087	.873107	.878197	.883961	.887791	.895443	.898333	.904348	
335	.871839	.879043	.884810	.889677	.895177	.898825	.906097	.908838	.914531	
340	.884054	.890937	.896433	.901061	.906281	.909736	.916605	.919187	.924538	
345	.896223	.902761	.907966	.912340	.917259	.920508	.926947	.929361	.934349	
350	.908340	.914504	.919397	.923496	.928093	.931120	.937100	.939333	.943934	
355	.920394	.926154	.930708	.934510	.938759	.941548	.947033	.949073	.953259	
360	.932376	.937693	.941877	.945355	.949226	.951756	.956705	.958535	.962275	
365	.944267	.949094	.952870	.955992	.959447	.961693	.966056	.967659	.970912	
370	.956041	.960319	.963638	.966363	.969355	.971285	.974999	.976351	.979069	
375	.967657	.971304	.974100	.976371	.978836	.980409	.983392	.984461	.986582	
380	.979035	.981929	.984103	.985838	.987683	.988838	.990972	.991717	.993158	
385	.989976	.991899	.993279	.994334	.995403	.996042	.997147	.997507	.998160	
390	.999428	.999730	.999868	.999935	.999974	.999987	.999997	.999999	1.000000	
400	200	.519771	.530740	.539783	.547610	.556689	.562854	.575520	.580432	.590900
	205	.532240	.543188	.552206	.560008	.569052	.575191	.587793	.592678	.603082
	210	.544697	.555615	.564604	.572375	.581379	.587487	.600019	.604873	.615207
	215	.557140	.568023	.576976	.584712	.593669	.599744	.612197	.617018	.627275
	220	.569570	.580410	.589322	.597018	.605924	.611960	.624326	.629111	.639285
	225	.581987	.592777	.601642	.609293	.618142	.624136	.636408	.641153	.651237
	230	.594390	.605124	.613936	.621537	.630323	.636271	.648441	.653143	.663131
	235	.606780	.617450	.626204	.633750	.642466	.648364	.660424	.665081	.674966
	240	.619156	.629755	.638444	.645931	.654572	.660417	.672358	.676965	.686741
	245	.631518	.642039	.650658	.658079	.666640	.672426	.684241	.688796	.698456
	250	.643866	.654302	.662844	.670195	.678669	.684393	.696072	.700573	.710109
	255	.656200	.666543	.675002	.682277	.690658	.696316	.707851	.712293	.721700
	260	.668519	.678761	.687131	.694325	.702607	.708194	.719577	.723957	.733226
	265	.680822	.690956	.699231	.706338	.714514	.720027	.731248	.735563	.744687
	270	.693111	.703128	.711101	.718315	.726379	.731812	.742863	.747109	.756081
	275	.705383	.715275	.723340	.730255	.738200	.743550	.754420	.758593	.767406
	280	.717639	.727398	.735347	.742158	.749976	.755237	.765918	.770015	.778659
	285	.729878	.739495	.747320	.754020	.761706	.766873	.777354	.781370	.789839
	290	.742100	.751565	.759260	.765842	.773387	.778455	.788726	.792658	.800943
	295	.754303	.763607	.771163	.777622	.785018	.789982	.800032	.803876	.811967

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
400	300	.766487	.775620	.783029	.789357	.796596	.801451	.811268	.815019	.822908
	305	.778650	.787602	.794857	.801046	.808119	.812858	.822432	.826086	.833762
	310	.790793	.799552	.806642	.812685	.819584	.824202	.833519	.837070	.844525
	315	.802913	.811469	.818385	.824273	.830987	.835478	.844524	.847969	.855190
	320	.815010	.823349	.830081	.835805	.842326	.846681	.855444	.858777	.865753
	325	.827081	.835190	.841727	.847279	.853594	.857808	.866272	.869486	.876206
	330	.839124	.846990	.853320	.858689	.864788	.868852	.877002	.880091	.886542
	335	.851139	.858745	.864856	.870031	.875900	.879806	.887624	.890582	.896749
	340	.863120	.870450	.876328	.881298	.886924	.890662	.898129	.900950	.906818
	345	.875066	.882102	.887732	.892482	.897851	.901411	.908507	.911181	.916734
	350	.886973	.893693	.899058	.903575	.908669	.912040	.918741	.921260	.926480
	355	.898834	.905216	.910296	.914564	.919365	.922534	.928815	.931169	.936034
	360	.910645	.916661	.921436	.925435	.929921	.932874	.938706	.940884	.945371
	365	.922395	.928016	.932459	.936169	.940314	.943034	.948383	.950372	.954454
	370	.934075	.939262	.943344	.946737	.950513	.952980	.957806	.959591	.963237
	375	.945666	.950375	.954058	.957104	.960473	.962664	.966918	.968481	.971652
	380	.957144	.961317	.964554	.967212	.970129	.972011	.975633	.976950	.979600
	385	.968469	.972025	.974752	.976967	.979370	.980904	.983812	.984854	.986922
	390	.979560	.982382	.984503	.986194	.987993	.989119	.991199	.991926	.993330
	395	.990227	.992102	.993448	.994476	.995519	.996141	.997219	.997570	.998206
	400	.999442	.999737	.999872	.999937	.999975	.999987	.999997	.999999	1.000000
410	205	.519544	.530379	.539312	.547044	.556013	.562105	.574620	.579474	.589819
	210	.531710	.542525	.551434	.559142	.568078	.574145	.586599	.591428	.601712
	215	.543864	.554651	.563532	.571212	.580109	.586147	.598534	.603333	.613551
	220	.556005	.566759	.575606	.583252	.592106	.598111	.610424	.615191	.625336
	225	.568134	.578847	.587656	.595264	.604069	.610038	.622268	.627001	.637067
	230	.580251	.590917	.599681	.607247	.615997	.621926	.634068	.638763	.649743
	235	.592355	.602968	.611682	.619200	.627891	.633776	.645821	.650476	.660365
	240	.604446	.614999	.623658	.631124	.639750	.645588	.657528	.662140	.671932
	245	.616525	.627010	.635609	.643018	.651574	.657361	.669188	.673754	.683442
	250	.628590	.639002	.647534	.654882	.663361	.669093	.680801	.685317	.694896
	255	.640642	.650974	.659433	.666715	.675112	.680786	.692366	.696830	.706292
	260	.652681	.662925	.671307	.678517	.686826	.692437	.703881	.708290	.717629
	265	.664706	.674855	.683153	.690286	.698502	.704047	.715347	.719697	.728906
	270	.676716	.686764	.694972	.702024	.710140	.715614	.726762	.731050	.740123
	275	.688713	.698650	.706763	.713727	.721738	.727137	.738124	.742347	.751276
	280	.700694	.710515	.718525	.725397	.733295	.738615	.749433	.753587	.762366
	285	.712660	.722356	.730257	.737031	.744810	.750047	.760686	.764769	.773389
	290	.724611	.734173	.741959	.748628	.756282	.761431	.771887	.775889	.784343
	295	.736545	.745965	.753628	.760188	.767719	.772766	.783019	.786947	.795227
	300	.748462	.757732	.765265	.771708	.779090	.784049	.794094	.797939	.806038
	305	.760362	.769471	.776868	.783188	.790423	.795278	.805105	.808863	.816772
	310	.772243	.781183	.788434	.794624	.801704	.806452	.816050	.819717	.827426
	315	.784105	.792865	.799963	.806016	.812933	.817567	.826925	.830495	.837996
	320	.795946	.804516	.811452	.817361	.824106	.828620	.837725	.841196	.848478
	325	.807766	.816135	.822898	.828655	.835219	.839607	.848448	.851813	.858866
	330	.819563	.827718	.834300	.839896	.846269	.850525	.859087	.862342	.869155
	335	.831335	.839264	.845655	.851081	.857252	.861369	.869637	.872776	.879338
	340	.843081	.850770	.856957	.862204	.868162	.872132	.880092	.883109	.889407
	345	.854798	.862232	.868204	.873260	.878994	.882809	.890443	.893332	.899353
	350	.866484	.873647	.879390	.884244	.889740	.893390	.900681	.903435	.909163
	355	.878135	.885009	.890509	.895149	.900391	.903868	.910795	.913406	.918826
	360	.889748	.896313	.901552	.905964	.910938	.914229	.920771	.923229	.928323
	365	.901317	.907550	.912512	.916679	.921365	.924459	.930590	.932888	.937635
	370	.912837	.918712	.923374	.927279	.931657	.934540	.940232	.942357	.946736
	375	.924298	.929786	.934124	.937745	.941791	.944446	.949666	.951607	.955590

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
410	380	.535690	.940755	.944739	.948051	.951736	.954144	.958853	.960595	.964151	
	385	.946997	.951594	.955189	.958161	.961449	.963586	.967737	.969262	.972356	
	390	.958194	.962266	.965425	.968018	.970865	.972702	.976235	.977520	.980105	
	395	.969240	.972711	.975372	.977532	.979878	.981374	.984211	.985228	.987245	
	400	.980060	.982813	.984883	.986532	.988288	.989386	.991416	.992124	.993494	
	405	.990466	.992295	.993608	.994611	.995628	.996235	.997287	.997629	.998250	
	410	.999456	.999743	.999875	.999938	.999975	.999988	.999998	.999999	1.000000	
	420	210	.519324	.530031	.538857	.546498	.555362	.561382	.573751	.578550	.588776
		215	.531202	.541888	.550693	.558311	.567143	.573139	.585451	.590224	.600393
		220	.543067	.553728	.562505	.570096	.578891	.584860	.597108	.601854	.611959
225		.554921	.565550	.574295	.581854	.590608	.596546	.608773	.613439	.623474	
230		.566764	.577354	.586062	.593585	.602293	.608196	.620295	.624978	.634939	
235		.578594	.589140	.597807	.605289	.613945	.619811	.631825	.636472	.646352	
240		.590413	.600908	.609528	.616965	.625565	.631389	.643312	.647920	.657714	
245		.602220	.612658	.621225	.628614	.637152	.642931	.654755	.659322	.669023	
250		.614014	.624390	.632900	.640234	.648706	.654437	.666154	.670678	.680280	
255		.625797	.636103	.644550	.651826	.660225	.665905	.677508	.681986	.691484	
260		.637567	.647797	.656176	.663390	.671711	.677335	.688817	.693245	.702633	
265		.649324	.659472	.667777	.674923	.683162	.688727	.700081	.704456	.713728	
270		.661068	.671127	.679353	.686427	.694578	.700080	.711297	.715617	.724766	
275		.672800	.682762	.690904	.697901	.705957	.711392	.722466	.726728	.735747	
280		.684518	.694376	.702428	.709343	.717299	.722664	.733586	.737786	.746670	
285		.696221	.705970	.713925	.720753	.728603	.733894	.744655	.748791	.757532	
290		.707911	.717542	.725395	.732130	.739869	.745080	.755673	.759741	.768333	
295		.719596	.729092	.736836	.743473	.751094	.756222	.766638	.770635	.779070	
300		.731246	.740619	.748248	.754781	.762277	.767319	.777548	.781470	.789742	
305		.742891	.752121	.759629	.766053	.773418	.778367	.788401	.792245	.800345	
310	.754519	.763600	.770978	.777286	.784513	.789366	.799195	.802957	.810878		
315	.766130	.775052	.782294	.788481	.795562	.800314	.809927	.813603	.821337		
320	.777723	.786477	.793575	.799634	.806562	.811207	.820595	.824181	.831718		
325	.789297	.797874	.804820	.810744	.817511	.822044	.831195	.834687	.842019		
330	.800852	.809240	.816027	.821808	.828406	.832821	.841724	.845117	.852235		
335	.812386	.820576	.827193	.832824	.839243	.843535	.852177	.855467	.862360		
340	.823898	.831877	.838316	.843788	.850020	.854181	.862550	.865731	.872389		
345	.835386	.843142	.849392	.854698	.860731	.864755	.872837	.875904	.882316		
350	.846848	.854368	.860418	.865548	.871372	.875252	.883031	.885978	.892132		
355	.858282	.865552	.871390	.876333	.881937	.885665	.893124	.895946	.901828		
360	.869686	.876690	.882304	.887048	.892419	.895986	.903109	.905798	.911393		
365	.881057	.887776	.893152	.897686	.902809	.906205	.912977	.915522	.920815		
370	.892390	.898806	.903927	.908237	.913097	.916312	.922701	.925103	.930077		
375	.903681	.909772	.914620	.918691	.923269	.926291	.932279	.934523	.939158		
380	.914924	.920665	.925219	.929033	.933310	.936125	.941684	.943759	.948034		
385	.926110	.931472	.935709	.939245	.943197	.945789	.950886	.952782	.956670		
390	.937229	.942176	.946067	.949302	.952900	.955251	.959849	.961549	.965022		
395	.948264	.952754	.956264	.959167	.962377	.964464	.968517	.970005	.973025		
400	.959193	.963170	.966254	.969378	.971566	.973359	.976808	.978063	.980586		
405	.969975	.973364	.975962	.978071	.980361	.981821	.984591	.985583	.987552		
410	.980535	.983224	.985244	.986855	.988568	.989641	.991622	.992313	.993651		
415	.990693	.992479	.993761	.994740	.995733	.996326	.997352	.997686	.998292		
420	.999469	.999749	.999878	.999940	.999976	.999988	.999998	.999999	1.000000		
430	215	.519112	.529695	.538419	.545971	.554733	.560684	.572913	.577657	.587769	
	220	.530714	.541277	.549980	.557511	.566242	.572171	.584345	.589065	.599122	
	225	.542305	.552843	.561521	.569025	.577722	.583624	.595737	.600431	.610427	
	230	.553895	.564393	.573040	.580514	.589171	.595044	.607090	.611755	.621695	
	235	.565454	.575925	.584537	.591977	.600591	.606431	.618402	.623036	.632895	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
430	240	.577011	.587441	.596013	.603415	.611979	.617783	.629674	.634274	.644056
	245	.588558	.598990	.607467	.614827	.623337	.629102	.640906	.645469	.655169
	250	.600093	.610421	.618899	.626212	.634664	.640387	.652096	.656621	.666233
	255	.611617	.621885	.630309	.637571	.645960	.651637	.663245	.667728	.677247
	260	.623129	.633332	.641696	.648903	.657224	.662852	.674352	.678791	.688211
	265	.634630	.644761	.653061	.660208	.668456	.674031	.685417	.689809	.699124
	270	.646119	.656172	.664402	.671486	.679655	.685174	.696439	.700781	.709985
	275	.657596	.667564	.675720	.682736	.690821	.696281	.707416	.711706	.720794
	280	.669060	.678938	.687014	.693956	.701953	.707350	.718349	.722584	.731549
	285	.680512	.690292	.698283	.705148	.713050	.718380	.729236	.733412	.742249
290	.691951	.701627	.709527	.716310	.724112	.729372	.740076	.744191	.752893	
295	.703376	.712942	.720745	.727441	.735137	.740323	.750867	.754919	.763480	
300	.714788	.724236	.731937	.738540	.746125	.751232	.761610	.765594	.774007	
305	.726186	.735508	.743101	.749606	.757074	.762099	.772301	.776214	.784473	
310	.737569	.746759	.754237	.760639	.767984	.772922	.782939	.786779	.794875	
315	.748937	.757986	.765343	.771637	.778851	.783698	.793523	.797285	.805212	
320	.760290	.769189	.776419	.782598	.789676	.794427	.804049	.807730	.815481	
325	.771626	.780368	.787462	.793522	.800455	.805107	.814516	.818113	.825679	
330	.782945	.791520	.798472	.804405	.811187	.815734	.824921	.828429	.835802	
335	.794245	.802645	.809447	.815247	.821870	.826306	.835260	.838675	.845847	
340	.805527	.813741	.820385	.826044	.832501	.836821	.845530	.848849	.855809	
345	.816789	.824807	.831284	.836795	.843076	.847274	.855727	.858944	.865685	
350	.828029	.835839	.842140	.847495	.853592	.857662	.865847	.868957	.875467	
355	.839246	.846837	.852952	.858143	.864045	.867980	.875883	.878881	.885149	
360	.850438	.857796	.863715	.868733	.874429	.878223	.885829	.888710	.894725	
365	.861603	.868715	.874426	.879260	.884740	.888385	.895678	.898436	.904184	
370	.872739	.879589	.885080	.889719	.894970	.898457	.905420	.908049	.913516	
375	.883842	.890414	.895670	.900103	.905111	.908431	.915045	.917537	.922709	
380	.894909	.901183	.906189	.910403	.915153	.918296	.924540	.926886	.931746	
385	.905934	.911890	.916629	.920609	.925083	.928036	.933888	.936080	.940608	
390	.916913	.922526	.926977	.930705	.934885	.937635	.943066	.945094	.949270	
395	.927837	.933078	.937219	.940675	.944536	.947069	.952049	.953901	.957699	
400	.938695	.943530	.947333	.950494	.954009	.956306	.960798	.962459	.965850	
405	.949472	.953860	.957290	.960126	.963262	.965301	.969259	.970713	.973663	
410	.960145	.964031	.967045	.969518	.972233	.973985	.977354	.978579	.981044	
415	.970675	.973986	.976524	.978585	.980821	.982248	.984953	.985922	.987845	
420	.980989	.983616	.985589	.987167	.988836	.989883	.991818	.992493	.993800	
425	.990910	.992654	.993906	.994863	.995533	.996411	.997414	.997740	.998332	
430	.999481	.999755	.999881	.999941	.999977	.999988	.999998	.999999	1.000000	
440	220	.518908	.529369	.537994	.545462	.554124	.560009	.572102	.576794	.586795
	225	.530246	.540690	.549295	.556741	.565375	.571238	.583279	.587948	.597896
	230	.541575	.551995	.560575	.567997	.576598	.582436	.594418	.599062	.608953
	235	.552893	.563284	.571835	.579228	.587792	.593602	.605520	.610136	.619964
	240	.564200	.574557	.583075	.590436	.598957	.604736	.616583	.621170	.630930
	245	.575497	.585814	.594295	.601619	.610094	.615838	.627609	.632164	.641850
	250	.586784	.597055	.605494	.612777	.621202	.626909	.638596	.643116	.652725
	255	.598060	.608280	.616672	.623911	.632280	.637947	.649545	.654028	.663553
	260	.609325	.619489	.627829	.635020	.643329	.648952	.660455	.664898	.674334
	265	.620580	.630681	.638965	.646104	.654348	.659925	.671325	.675726	.685068
270	.631823	.641857	.650080	.657162	.665337	.670864	.682155	.686512	.695755	
275	.643055	.653015	.661172	.668195	.676295	.681769	.692945	.697254	.706392	
280	.654276	.664157	.672243	.679201	.687221	.692639	.703693	.707953	.716980	
285	.665495	.675280	.683291	.690180	.698116	.703474	.714349	.718607	.727518	
290	.676683	.686386	.694316	.701131	.708979	.714274	.725062	.729215	.738004	
295	.687868	.697473	.705317	.712055	.719808	.725036	.735681	.739776	.748437	
300	.699041	.708541	.716295	.722950	.730603	.735761	.746256	.750289	.758817	
305	.710201	.719590	.727247	.733815	.741363	.746447	.756783	.760753	.769141	
310	.721348	.730619	.738174	.744650	.752087	.757093	.767263	.771167	.779408	
315	.732481	.741627	.749074	.755453	.762774	.767698	.777694	.781528	.789616	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
440	320	.743601	.752614	.759947	.766223	.773422	.778260	.788074	.791835	.799763	
	325	.754706	.763579	.770791	.776960	.784030	.788779	.798401	.802085	.809847	
	330	.765795	.774521	.781606	.787662	.794596	.799251	.808673	.812277	.819865	
	335	.776869	.785438	.792390	.798327	.805119	.809674	.818888	.822409	.829814	
	340	.787926	.796331	.803142	.808954	.815596	.820048	.829042	.832476	.839692	
	345	.798966	.807197	.813860	.819540	.826026	.830369	.839133	.842476	.849493	
	350	.809988	.818035	.824542	.830083	.836404	.840633	.849157	.852405	.859215	
	355	.820989	.828843	.835185	.840581	.846729	.850839	.859111	.862258	.868852	
	360	.831970	.839619	.845788	.851031	.856997	.860981	.868989	.872032	.878399	
	365	.842929	.850361	.856348	.861428	.867204	.871055	.878786	.881719	.887849	
	370	.853863	.861067	.866860	.871770	.877344	.881056	.888496	.891314	.897196	
	375	.864771	.871733	.877322	.882052	.887413	.890979	.898111	.900809	.906430	
	380	.875651	.882355	.887728	.892267	.897404	.900814	.907624	.910194	.915540	
	385	.886499	.892930	.898072	.902409	.907308	.910554	.917022	.919458	.924515	
	390	.897312	.903450	.908348	.912469	.917115	.920188	.926293	.928587	.933338	
	395	.908085	.913910	.918546	.922438	.926813	.929701	.935421	.937564	.941991	
	400	.918812	.924301	.928655	.932300	.936387	.939076	.946385	.948367	.950449	
	405	.929485	.934610	.938660	.942039	.945814	.948290	.953158	.954968	.958680	
	410	.940095	.944823	.948541	.951631	.955067	.957313	.961703	.963326	.966641	
	415	.950625	.954915	.958268	.961040	.964106	.966099	.969968	.971389	.974271	
	420	.961054	.964853	.967799	.970217	.972870	.974582	.977875	.979072	.981481	
	425	.971343	.974580	.977061	.979075	.981260	.982655	.985298	.986245	.988124	
	430	.981422	.983989	.985918	.987456	.989091	.990115	.992005	.992665	.993942	
	435	.991117	.992821	.994045	.994980	.995928	.996493	.997473	.997792	.998370	
	440	.999493	.999761	.999883	.999942	.999977	.999989	.999998	.999999	1.000000	
	450	225	.518709	.529055	.537584	.544969	.553536	.559357	.571318	.575959	.585853
		230	.529797	.540124	.548635	.556000	.564540	.570339	.582251	.586870	.596714
		235	.540874	.551180	.559667	.567008	.575516	.581297	.593148	.597743	.607532
		240	.551942	.562220	.570679	.577993	.586466	.592215	.604009	.608579	.618307
		245	.563000	.573245	.581673	.588956	.597389	.603108	.614835	.619376	.629039
		250	.574048	.584255	.592647	.599895	.608284	.613971	.625625	.630135	.639729
		255	.585086	.595250	.603602	.610812	.619152	.624803	.636378	.640856	.650375
		260	.596114	.606230	.614537	.621705	.629992	.635605	.647095	.651537	.660977
		265	.607132	.617194	.625453	.632575	.640805	.646377	.657775	.662180	.671535
		270	.618139	.628143	.636348	.643421	.651589	.657117	.668418	.672783	.682048
275		.629137	.639076	.647223	.654242	.662345	.667825	.679024	.683346	.692517	
280		.640124	.649993	.658078	.665040	.673072	.678502	.689591	.693868	.702939	
285		.651100	.660894	.668912	.675912	.683770	.689146	.700119	.704349	.713315	
290		.662065	.671778	.679725	.686560	.694437	.699757	.710607	.714787	.723643	
295		.673019	.682645	.690515	.697281	.705074	.710334	.721055	.725183	.733923	
300		.683961	.693495	.701284	.707976	.715680	.720877	.731462	.735535	.744154	
305		.694893	.704327	.712030	.719644	.726254	.731384	.741826	.745842	.754334	
310		.705812	.715141	.722753	.729285	.736795	.741855	.752147	.756102	.764462	
315		.716718	.725937	.733452	.739897	.747302	.752288	.762424	.766316	.774537	
320		.727613	.736713	.744126	.750479	.757774	.762684	.772654	.776480	.784556	
325		.738494	.747469	.754775	.761032	.768211	.773039	.782837	.786594	.794519	
330		.749361	.758205	.765397	.771553	.778610	.783353	.792971	.796656	.804423	
335		.760215	.768919	.775992	.782041	.788971	.793625	.803054	.806663	.814266	
340		.771054	.779611	.786559	.792495	.799291	.803852	.813083	.816614	.824045	
345		.781877	.790280	.797095	.802914	.809569	.814033	.823058	.826506	.833758	
350		.792685	.800924	.807600	.813295	.819803	.824164	.832973	.836336	.843401	
355		.803475	.811543	.818072	.823637	.829991	.834245	.842828	.846101	.852571	
360		.814248	.822134	.828510	.833938	.840130	.844271	.852618	.855797	.862463	
365		.825002	.832697	.838910	.844195	.850217	.854240	.862339	.865420	.871873	
370		.835735	.843228	.849271	.854405	.860248	.864148	.871987	.874965	.881196	



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
450	375	.846447	.853727	.859590	.864565	.870220	.873990	.881556	.884427	.890425	
	380	.857135	.864190	.869863	.874671	.880127	.883760	.891041	.893799	.899554	
	385	.867798	.874615	.880087	.884717	.889965	.893454	.900434	.903073	.908572	
	390	.878433	.884997	.890257	.894700	.899727	.903064	.909727	.912241	.917471	
	395	.889038	.895333	.900366	.904611	.909404	.912581	.918909	.921291	.926238	
	400	.899608	.905616	.910409	.914442	.918988	.921994	.927967	.930210	.934857	
	405	.910139	.915840	.920376	.924184	.928465	.931290	.936885	.938981	.943311	
	410	.920675	.925997	.930257	.933873	.937821	.940451	.945644	.947583	.951574	
	415	.931060	.936074	.940036	.943342	.947034	.949456	.954217	.955987	.959617	
	420	.941432	.946057	.949694	.952717	.956078	.958274	.962567	.964155	.967396	
	425	.951727	.955923	.959203	.961914	.964913	.966861	.970644	.972034	.974852	
	430	.961922	.965638	.968519	.970884	.973479	.975153	.978372	.979543	.981898	
	435	.971992	.975147	.977573	.979543	.981680	.983043	.985628	.986554	.988391	
	440	.981836	.984346	.986232	.987736	.989335	.990336	.992184	.992830	.994078	
	445	.991315	.992981	.994178	.995092	.996018	.996571	.997529	.997841	.998406	
	450	.999504	.999766	.999886	.999944	.999978	.999989	.999998	.999999	1.000000	
	460	230	.518517	.528750	.537187	.544492	.552967	.558725	.570559	.575151	.584941
		235	.529364	.539580	.547999	.555285	.563734	.569472	.581258	.585829	.595571
		240	.540202	.550396	.558793	.566056	.574475	.580190	.591923	.596472	.606161
		245	.551030	.561198	.569569	.576806	.585191	.590880	.602555	.607078	.616710
250		.561949	.571986	.580326	.587534	.595881	.601542	.613152	.617649	.627219	
255		.572659	.582760	.591066	.598240	.606545	.612175	.623716	.628183	.637686	
260		.583459	.593519	.601787	.608925	.617184	.622780	.634245	.638681	.648113	
265		.594249	.604264	.612489	.619588	.627796	.633356	.644740	.649142	.658499	
270		.605031	.614994	.623173	.630228	.638382	.643903	.655200	.659567	.668842	
275		.615802	.625710	.633838	.640846	.648941	.654420	.665625	.669953	.679144	
	280	.626564	.636411	.644484	.651441	.659474	.664908	.676014	.680302	.689403	
	285	.637316	.647096	.655111	.662013	.669979	.675365	.686367	.690613	.699618	
	290	.648057	.657767	.665718	.672562	.680457	.685792	.696684	.700884	.709790	
	295	.658789	.668421	.676304	.683087	.690906	.696187	.706963	.711116	.719917	
	300	.669510	.679060	.686877	.693587	.701326	.706551	.717204	.721307	.729998	
	305	.680220	.689683	.697417	.704063	.711717	.716882	.727406	.731457	.740033	
	310	.690919	.700288	.707941	.714514	.722078	.727180	.737569	.741565	.750020	
	315	.701607	.710877	.718443	.724938	.732409	.737444	.747690	.751630	.759959	
	320	.712294	.721449	.728923	.735336	.742707	.747673	.757970	.761650	.769848	
	325	.722949	.732002	.739380	.745706	.752973	.757866	.767807	.771624	.779685	
	330	.733602	.742537	.749814	.756048	.763206	.768022	.777800	.781551	.789469	
	335	.744242	.753052	.760222	.766361	.773404	.778139	.787747	.791430	.799198	
	340	.754868	.763548	.770605	.776644	.783566	.788217	.797646	.801258	.808870	
	345	.765482	.774023	.780962	.786895	.793690	.798253	.807496	.811033	.818483	
	350	.776081	.784476	.791291	.797112	.803776	.808247	.817295	.820754	.828035	
	355	.786665	.794907	.801591	.807296	.813821	.818195	.827039	.830418	.837522	
	360	.797234	.805315	.811861	.817444	.823823	.828097	.836728	.840022	.846942	
	365	.807786	.815697	.822098	.827553	.833780	.837948	.846357	.849562	.856291	
	370	.818321	.826053	.832302	.837622	.843689	.847747	.855923	.859036	.865564	
	375	.828838	.836381	.842471	.847649	.853549	.857490	.865427	.868439	.874758	
	380	.839335	.846679	.852600	.857630	.863354	.867174	.874850	.877767	.883868	
	385	.849811	.856945	.862689	.867563	.873101	.876793	.884203	.887013	.892886	
	390	.860264	.867177	.872734	.877442	.882786	.886344	.893473	.896172	.901806	
	395	.870692	.877370	.882730	.887265	.892404	.895820	.902653	.905237	.910619	
	400	.881094	.887523	.892674	.897025	.901947	.905214	.911736	.914197	.919316	
	405	.891465	.897630	.902559	.906715	.911408	.914518	.920711	.923043	.927884	
	410	.901803	.907687	.912380	.916328	.920778	.923720	.929566	.931762	.936309	
	415	.912103	.917686	.922126	.925854	.930044	.932809	.938285	.940336	.944572	
	420	.922360	.927619	.931789	.935279	.939192	.941766	.946848	.948744	.952649	
	425	.932565	.937474	.941352	.944587	.948201	.950571	.955229	.956960	.960512	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
460	430	.942710	.947238	.950797	.953755	.957044	.959193	.963393	.964946	.968117	
	435	.952780	.956887	.960097	.962750	.965684	.967590	.971291	.972650	.975407	
	440	.962753	.966389	.969208	.971522	.974061	.975699	.978848	.979993	.982297	
	445	.972592	.975690	.978063	.979990	.982081	.983415	.985943	.986849	.988646	
	450	.982232	.984688	.986533	.988004	.989568	.990547	.992356	.992987	.994207	
	455	.991504	.993134	.994305	.995199	.996105	.996646	.997583	.997888	.998441	
	460	.999515	.999771	.999888	.999945	.999978	.999989	.999998	.999999	1.000000	
	470	235	.518331	.528455	.536802	.544030	.552416	.558113	.569824	.574369	.584058
		240	.528947	.539055	.547385	.554595	.562956	.568634	.580299	.584824	.594467
		245	.539555	.549643	.557951	.565139	.573471	.579128	.590742	.595245	.604838
250		.550154	.560217	.568500	.575663	.583963	.589595	.601153	.605632	.615170	
255		.560744	.570777	.579032	.586167	.594430	.600035	.611532	.615985	.625464	
260		.571326	.581324	.589547	.596650	.604873	.610449	.621879	.626304	.635719	
265		.581898	.591858	.600044	.607112	.615291	.620835	.632193	.636588	.645935	
270		.592462	.602378	.610523	.617554	.625685	.631194	.642475	.646838	.656113	
275		.603016	.612884	.620985	.627974	.636054	.641525	.652723	.657052	.666250	
280		.613561	.623376	.631429	.638373	.646397	.651828	.662939	.667231	.676348	
285		.624097	.633854	.641855	.648751	.656715	.662104	.673120	.677374	.686405	
290		.634624	.644318	.652263	.659107	.667008	.672350	.683268	.687481	.696422	
295		.645141	.654767	.662652	.669441	.677274	.682568	.693381	.697551	.706397	
300		.655648	.665202	.673022	.679752	.687513	.692757	.703458	.707584	.716330	
305		.666146	.675621	.683373	.690041	.697725	.702915	.713500	.717579	.726220	
310		.676633	.686025	.693704	.700306	.707910	.713043	.723505	.727534	.736066	
315		.687110	.696414	.704016	.710547	.718066	.723139	.733473	.737450	.745867	
320		.697577	.706787	.714307	.720764	.728194	.733204	.743403	.747325	.755623	
325		.708033	.717143	.724576	.730956	.738292	.743235	.753293	.757159	.765311	
330		.718478	.727482	.734825	.741122	.748359	.753233	.763143	.766949	.774991	
335		.728911	.737804	.745050	.751262	.758395	.763197	.772952	.776696	.784602	
340		.739332	.748108	.755253	.761374	.768399	.773124	.782717	.786397	.794161	
345		.749742	.758394	.765432	.771458	.778368	.783015	.792439	.796051	.803668	
350		.760139	.768660	.775587	.781512	.788304	.792867	.802114	.805656	.813119	
355		.770522	.778906	.785716	.791536	.798203	.802679	.811742	.815210	.822513	
360		.780992	.789131	.795818	.801529	.808064	.812449	.821320	.824711	.831847	
365		.791247	.799335	.805892	.811487	.817886	.822175	.830846	.834157	.841119	
370		.801588	.809515	.815936	.821411	.827665	.831856	.840317	.843545	.850326	
375		.811912	.819672	.825950	.831298	.837403	.841489	.849730	.852871	.859464	
380		.822220	.829803	.835931	.841146	.847094	.851071	.859082	.862133	.868529	
385	.832509	.839906	.845877	.850953	.856735	.860598	.868370	.871326	.877516		
390	.842780	.849981	.855786	.860716	.866325	.870068	.877589	.880446	.886421		
395	.853030	.860024	.865454	.870431	.875858	.879475	.886733	.889486	.895238		
400	.863258	.870034	.875480	.880094	.885330	.888815	.895798	.898442	.903959		
405	.873462	.880007	.885259	.889702	.894736	.898083	.904776	.907306	.912576		
410	.883640	.889940	.894987	.899249	.904071	.907271	.913658	.916068	.921080		
415	.893788	.899829	.904658	.908729	.913325	.916371	.922435	.924719	.929458		
420	.903904	.909669	.914265	.918133	.922490	.925372	.931096	.933245	.937697		
425	.913993	.919452	.923801	.927452	.931555	.934262	.939623	.941631	.945778		
430	.924020	.929171	.933254	.936673	.940503	.943024	.947999	.949855	.953678		
435	.934077	.938814	.942611	.945779	.949317	.951637	.956197	.957892	.961368		
440	.943934	.948367	.951853	.954749	.957969	.960072	.964184	.965704	.968807		
445	.953798	.957809	.960952	.963549	.966421	.968287	.971910	.973240	.975939		
450	.963548	.967108	.969868	.972132	.974618	.976221	.979303	.980424	.982678		
455	.973177	.976209	.978533	.980419	.982465	.983771	.986245	.987132	.988890		
460	.982610	.985014	.986820	.988260	.989791	.990750	.992519	.993137	.994332		
465	.991635	.993281	.994426	.995301	.996188	.996718	.997635	.997933	.998474		
470	.999525	.999776	.999891	.999946	.999979	.999989	.999998	.999999	1.000000		

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
480	240	.518150	.528168	.536429	.543582	.551881	.557521	.569112	.573610	.583202
	245	.528546	.538549	.546793	.553928	.562204	.567824	.579372	.583851	.593399
	250	.538934	.548917	.557141	.564255	.572503	.578103	.589602	.594060	.603559
	255	.549313	.559272	.567472	.574563	.582780	.588356	.599801	.604237	.613684
	260	.559694	.569615	.577787	.584851	.593033	.598584	.609970	.614381	.623771
	265	.570046	.579945	.588086	.595170	.603264	.608786	.620109	.624493	.633827
	270	.580400	.590262	.598368	.605369	.613471	.618962	.630217	.634572	.643836
	275	.590746	.600566	.608634	.615598	.623654	.629113	.640293	.644618	.653813
	280	.601083	.610857	.618883	.625808	.633814	.639237	.650339	.654631	.663753
	285	.611411	.621134	.629115	.635997	.643951	.649335	.660353	.664610	.673655
	290	.621730	.631399	.639329	.646166	.654063	.659407	.670335	.674556	.683518
	295	.632041	.641650	.649527	.656314	.664151	.669451	.680285	.684467	.693343
	300	.642342	.651887	.659707	.666442	.674214	.679468	.690202	.694343	.703129
	305	.652635	.662110	.669869	.676548	.684251	.689457	.700085	.704184	.712875
	310	.662918	.672319	.680013	.686632	.694263	.699418	.709935	.713989	.722580
	315	.673192	.682514	.690139	.696695	.704249	.709350	.719751	.723757	.732244
	320	.683455	.692694	.700245	.706735	.714209	.719252	.729531	.733488	.741855
	325	.693710	.702859	.710333	.716752	.724141	.729125	.739275	.743180	.751444
	330	.703953	.713008	.720400	.726746	.734045	.738966	.748982	.752833	.760978
	335	.714187	.723142	.730447	.736715	.743921	.748776	.758652	.762446	.770467
	340	.724410	.733259	.740474	.746660	.753767	.758554	.768282	.772018	.779909
	345	.734621	.743360	.750478	.756579	.763583	.768297	.777872	.781547	.789304
	350	.744822	.753443	.760461	.766471	.773368	.778007	.787421	.791032	.798649
	355	.755010	.763508	.770420	.776336	.783120	.787680	.796927	.800471	.807942
	360	.765187	.773555	.780356	.786173	.792838	.797316	.806389	.809863	.817182
	365	.775350	.783582	.790267	.795980	.802522	.806913	.815804	.819206	.826367
	370	.785500	.793589	.800152	.805756	.812169	.816470	.825171	.828497	.835494
	375	.795637	.803575	.810010	.815500	.821777	.825985	.834488	.837735	.844561
	380	.805759	.813539	.819839	.825210	.831346	.835455	.843751	.846916	.853564
	385	.815864	.823479	.829638	.834884	.840872	.844878	.852958	.856038	.862500
	390	.825954	.833394	.839405	.844521	.850353	.854252	.862106	.865097	.871365
	395	.836027	.843283	.849138	.854117	.859786	.863573	.871192	.874089	.880155
	400	.846081	.853143	.858836	.863670	.869169	.872838	.880210	.883009	.888865
	405	.856115	.862974	.868494	.873177	.878497	.882042	.889156	.891853	.897488
	410	.866127	.872771	.878111	.882634	.887765	.891181	.898024	.900615	.906019
	415	.876116	.882533	.887682	.892036	.896970	.900250	.906807	.909286	.914449
	420	.886080	.892256	.897202	.901380	.906104	.909240	.915498	.917859	.922768
	425	.896015	.901936	.906668	.910657	.915161	.918145	.924086	.926323	.930965
	430	.905918	.911567	.916072	.919861	.924130	.927693	.932560	.934666	.939026
	435	.915785	.921144	.925405	.929482	.933002	.935653	.940905	.942871	.946932
	440	.925611	.930658	.934659	.938007	.941760	.944229	.949101	.950919	.954663
	445	.935388	.940098	.943818	.946921	.950386	.952659	.957124	.958784	.962188
	450	.945107	.949450	.952864	.955701	.958854	.960914	.964944	.966429	.969468
	455	.954755	.958693	.961771	.964315	.967128	.968955	.972503	.973805	.976447
	460	.964309	.967796	.970499	.972717	.975151	.976721	.979739	.980837	.983044
	465	.973737	.976707	.978982	.980829	.982833	.984112	.986534	.987403	.989124
	470	.982973	.985328	.987096	.988506	.990005	.990943	.992676	.993281	.994561
	475	.991858	.993421	.994543	.995399	.996268	.996786	.997684	.997977	.998506
	480	.999535	.999781	.999893	.999947	.999979	.999990	.999998	.999999	1.000000
490	245	.517975	.527891	.536067	.543147	.551363	.556946	.568421	.572874	.582372
	250	.528159	.538060	.546221	.553284	.561477	.567041	.578475	.582910	.592365
	255	.538335	.548218	.556359	.563402	.571569	.577113	.588500	.592915	.602324
	260	.548504	.558363	.566482	.573502	.581639	.587161	.598496	.602890	.612248
	265	.558664	.568497	.576589	.583584	.591687	.597185	.608464	.612834	.622137
	270	.568817	.578618	.586580	.593647	.601713	.607184	.618402	.622746	.631992
	275	.578961	.588727	.596756	.603691	.611718	.617159	.628311	.632628	.641812
	280	.589097	.598824	.606817	.613717	.621700	.627109	.638191	.642479	.651596
	285	.599225	.608908	.616861	.623723	.631659	.637035	.648042	.652298	.661345
	290	.609345	.618980	.626889	.633711	.641596	.646935	.657862	.662085	.671058

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
490	295	.619457	.629040	.636901	.643679	.651510	.656811	.667652	.671840	.680735
	300	.629560	.639086	.646897	.653628	.661401	.666660	.677411	.681563	.690375
	305	.639655	.649120	.656876	.663557	.671269	.676484	.687140	.691252	.699978
	310	.649741	.659140	.666838	.673466	.681113	.686281	.696837	.700908	.709544
	315	.659818	.669147	.676783	.683354	.690932	.696052	.706502	.710530	.719071
	320	.669887	.679140	.686711	.693222	.700727	.705795	.716134	.720118	.728558
	325	.679946	.689120	.696620	.703069	.710497	.715511	.725733	.729670	.738007
	330	.689995	.699085	.706512	.712893	.720241	.725198	.735298	.739185	.747414
	335	.700036	.709035	.716385	.722696	.729959	.734856	.744828	.748664	.756780
	340	.710066	.718971	.726238	.732476	.739650	.744485	.754323	.758105	.766103
345	.720097	.728892	.736073	.742232	.749313	.754082	.763781	.767508	.775382	
350	.730097	.738796	.745886	.751965	.758947	.763649	.773202	.776870	.784616	
355	.740096	.748695	.755680	.761673	.768553	.773182	.782584	.786191	.793804	
360	.750094	.758557	.765451	.771355	.778128	.782683	.791925	.795469	.802944	
365	.760091	.768411	.775201	.781010	.787671	.792148	.801225	.804703	.812034	
370	.770026	.778247	.784927	.790639	.797182	.801578	.810482	.813891	.821072	
375	.779979	.788065	.794629	.800238	.806660	.810970	.819694	.823032	.830057	
380	.789919	.797862	.804306	.809907	.816101	.820322	.828860	.832122	.838986	
385	.799845	.807640	.813956	.819345	.825505	.829634	.837976	.841161	.847856	
390	.809757	.817395	.823579	.828850	.834871	.838902	.847040	.850145	.856664	
395	.819654	.827128	.833173	.838321	.844195	.848125	.856050	.859071	.865407	
400	.829535	.836837	.842735	.847754	.853475	.857300	.865003	.867935	.874081	
405	.839399	.846520	.852265	.857149	.862710	.866424	.873895	.876735	.882682	
410	.849246	.856175	.861760	.866501	.871894	.875492	.882721	.885465	.891205	
415	.859072	.865801	.871216	.875809	.881026	.884502	.891476	.894121	.899645	
420	.868878	.875395	.880632	.885068	.890100	.893449	.900156	.902696	.907993	
425	.878661	.884955	.890004	.894274	.899111	.902326	.908754	.911183	.916243	
430	.888419	.894476	.899326	.903422	.908054	.911178	.917261	.919575	.924386	
435	.898149	.903955	.908595	.912506	.916921	.919845	.925668	.927860	.932409	
440	.907848	.913387	.917803	.921518	.925703	.928469	.933964	.936027	.940299	
445	.917512	.922766	.926943	.930449	.933489	.936987	.942133	.944060	.948039	
450	.927136	.932083	.936005	.939287	.942964	.945384	.950158	.951939	.955607	
455	.936712	.941329	.944974	.948015	.951411	.953638	.958013	.959639	.962974	
460	.946237	.950488	.953834	.956613	.959703	.961722	.965666	.967125	.970101	
465	.955681	.959541	.962557	.965050	.967805	.969596	.973071	.974347	.976935	
470	.965040	.968457	.971105	.973278	.975663	.977200	.980157	.981232	.983394	
475	.974275	.977184	.979413	.981223	.983186	.984438	.986812	.987662	.989349	
480	.983321	.985628	.987361	.988742	.990210	.991129	.992827	.993419	.994565	
485	.992024	.993555	.994654	.995493	.996345	.996852	.997732	.998018	.998537	
490	.999545	.999785	.999895	.999948	.999979	.999990	.999998	.999999	1.000000	
500	250	.517875	.527621	.535716	.542726	.550860	.556388	.567750	.572160	.581566
	255	.527786	.537588	.545668	.552661	.560773	.566284	.577606	.581999	.591363
	260	.537759	.547544	.555605	.562579	.570666	.576157	.587435	.591808	.601128
	265	.547725	.557488	.565527	.572480	.580538	.586007	.597236	.601588	.610860
	270	.557683	.567420	.575434	.582362	.590389	.595835	.607010	.611339	.620559
	275	.567634	.577341	.585327	.592228	.600219	.605639	.616756	.621061	.630225
	280	.577577	.587251	.595205	.602075	.610028	.615420	.626474	.630753	.639858
	285	.587512	.597148	.605067	.611905	.619816	.625178	.636164	.640415	.649457
	290	.597440	.607034	.614915	.621717	.629583	.634912	.645827	.650048	.659022
	295	.607360	.616908	.624748	.631510	.639329	.644623	.655460	.659650	.668553
300	.617272	.626771	.634565	.641286	.649052	.654310	.665066	.669222	.678050	
305	.627176	.636621	.644366	.651043	.658754	.663972	.674642	.678763	.687513	
310	.637072	.646458	.654152	.660781	.668433	.673609	.684188	.688272	.696939	
315	.646960	.656283	.663922	.670500	.678090	.683222	.693705	.697750	.706331	
320	.656839	.666096	.673675	.680199	.687724	.692810	.703192	.707196	.715686	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
500	325	.666710	.675896	.683412	.689879	.697335	.702371	.712647	.716608	.725003	
	330	.676572	.685682	.693133	.699539	.706922	.711907	.722072	.725988	.734284	
	335	.686426	.695455	.702836	.709179	.716485	.721415	.731464	.735333	.743525	
	340	.696270	.705215	.712521	.718798	.726073	.730896	.740823	.744643	.752728	
	345	.706106	.714960	.722188	.728395	.735535	.740349	.750149	.753918	.761890	
	350	.715931	.724691	.731837	.737970	.745022	.749773	.759441	.763156	.771012	
	355	.725747	.734407	.741467	.747523	.754481	.759168	.768697	.772357	.780090	
	360	.735553	.744108	.751078	.757052	.763914	.768532	.777916	.781519	.789125	
	365	.745349	.753793	.760668	.766557	.773317	.777865	.787099	.790640	.798116	
	370	.755134	.763462	.770237	.776038	.782692	.787165	.796242	.799721	.807059	
	375	.764908	.773114	.779785	.785493	.792036	.796432	.805345	.808759	.815955	
	380	.774670	.782748	.789311	.794921	.801348	.805664	.814406	.817752	.824800	
	385	.784421	.792365	.798813	.804321	.810627	.814859	.823423	.826699	.833593	
	390	.794159	.801962	.808290	.813693	.819872	.824016	.832395	.835597	.842332	
	395	.803883	.811539	.817742	.823033	.829081	.833133	.841320	.844445	.851013	
	400	.813594	.821095	.827167	.832347	.838251	.842208	.850194	.853240	.859635	
	405	.823291	.830629	.835664	.841617	.847382	.851239	.859015	.861978	.868193	
	410	.832972	.840140	.845930	.850856	.856470	.860223	.867781	.870657	.876685	
	415	.842636	.849625	.855264	.860057	.865514	.869157	.876486	.879272	.885105	
	420	.852283	.859084	.864565	.869217	.874509	.878038	.885128	.887820	.893449	
	425	.861911	.868514	.873828	.878334	.883452	.886862	.893702	.896295	.901712	
	430	.871518	.877913	.883051	.887403	.892339	.895623	.902202	.904692	.909886	
	435	.881103	.887278	.892232	.896420	.901165	.904318	.910621	.913003	.917964	
	440	.890664	.896606	.901364	.905381	.909924	.912938	.918952	.921221	.925937	
	445	.900198	.905893	.910444	.914279	.918609	.921476	.927186	.929335	.933793	
	450	.909701	.915134	.919465	.923108	.927211	.929923	.935310	.937333	.941520	
	455	.919170	.924323	.928419	.931857	.935719	.938267	.943311	.945200	.949100	
	460	.928600	.933451	.937297	.940515	.944120	.946492	.951171	.952917	.956512	
	465	.937984	.942510	.946084	.949066	.952394	.954577	.958866	.960459	.963727	
	470	.947311	.951484	.954764	.957489	.960518	.962496	.966363	.967792	.970709	
	475	.956571	.960355	.963311	.965754	.968455	.970210	.973616	.974867	.977403	
	480	.965741	.969090	.971687	.973816	.976153	.977660	.980558	.981612	.983730	
	485	.974791	.977642	.979827	.981601	.983525	.984752	.987078	.987911	.989564	
	490	.983656	.985916	.987614	.988968	.990407	.991308	.992971	.993552	.994674	
	495	.992184	.993684	.994761	.995584	.996418	.996915	.997777	.998058	.998566	
	500	.999554	.999789	.999897	.999949	.999980	.999990	.999998	.999999	1.000000	
	525	260	.512644	.522230	.530137	.536986	.544936	.550339	.561451	.565765	.574969
		270	.531657	.541218	.549097	.555916	.563826	.569199	.580238	.584520	.593650
		280	.550644	.560165	.568005	.574785	.582643	.587977	.598927	.603172	.612215
		290	.569603	.579072	.586860	.593592	.601387	.606674	.617520	.621720	.630662
		300	.588536	.597937	.605663	.612335	.620056	.625289	.636013	.640164	.648992
		310	.607441	.616761	.624413	.631015	.638650	.643820	.654407	.658501	.667202
		320	.626318	.635542	.643108	.649631	.657166	.662267	.672699	.676729	.685289
		330	.645167	.654279	.661747	.668179	.675604	.680626	.690887	.694847	.703252
		340	.663986	.672972	.680329	.686660	.693961	.698895	.708968	.712852	.721087
350		.682775	.691619	.698851	.705069	.712235	.717072	.726937	.730738	.738789	
360		.701532	.710217	.717311	.723406	.730421	.735153	.744792	.748501	.756352	
370		.720256	.728765	.735707	.741665	.748515	.753132	.762526	.766136	.773771	
380		.738945	.747259	.754035	.759843	.766514	.771005	.780132	.783636	.791037	
390		.757597	.765698	.772290	.777934	.784411	.788766	.797604	.800993	.808142	
400		.776209	.784075	.790468	.795934	.802198	.806405	.814931	.818196	.825074	
410		.794778	.802388	.808562	.813834	.819867	.823915	.832103	.835233	.841820	
420		.813301	.820629	.826565	.831626	.837408	.841282	.849104	.852090	.858362	
430		.831771	.838792	.844467	.849298	.854807	.858492	.865918	.868747	.874679	
440		.850184	.856866	.862256	.866835	.872046	.875526	.882522	.885181	.890745	
450		.868530	.874840	.879916	.884218	.889104	.892359	.898886	.901359	.906525	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
525	460	.986800	.892697	.897425	.901423	.905950	.908958	.914970	.917242	.921971	
	470	.904976	.910412	.914755	.918414	.922543	.925278	.930721	.932769	.937019	
	480	.923038	.927953	.931860	.935138	.938821	.941250	.946057	.947857	.951573	
	490	.940949	.945265	.948673	.951515	.954687	.956767	.960853	.962371	.965484	
	500	.958646	.962252	.965070	.967398	.969971	.971643	.974887	.976078	.978494	
	510	.975994	.978711	.980792	.982482	.984314	.985483	.987698	.988492	.990065	
	520	.992557	.993986	.995011	.995795	.996589	.997063	.997883	.998151	.998635	
	550	260	.489760	.499138	.506881	.513595	.521395	.526701	.537625	.541871	.550937
		270	.507941	.517310	.525041	.531739	.539515	.544802	.555677	.559901	.568915
		280	.526097	.535447	.543155	.549828	.557571	.562831	.573643	.577840	.586789
290		.544230	.553547	.561222	.567862	.575561	.580788	.591523	.595686	.604559	
300		.562339	.571612	.579243	.585841	.593485	.598672	.609316	.613441	.622225	
310		.580423	.589639	.597217	.603764	.611344	.616483	.627022	.631102	.639787	
320		.598494	.607630	.615144	.621631	.629135	.634221	.644639	.648670	.657243	
330		.616527	.625583	.633023	.639441	.646859	.651883	.662166	.666142	.674591	
340		.634531	.643499	.650853	.657192	.664514	.669469	.679602	.683516	.691829	
350		.652516	.661374	.668632	.674883	.682098	.686976	.696944	.700791	.708954	
	360	.670475	.679210	.686360	.692513	.699608	.704403	.714189	.717963	.725964	
	370	.688476	.697002	.704034	.710079	.717043	.721745	.731334	.735028	.742853	
	380	.706308	.714753	.721652	.727578	.734399	.739001	.748375	.751982	.759618	
	390	.724190	.732458	.739212	.745008	.751673	.756166	.765307	.768821	.776252	
	400	.742021	.750114	.756710	.762364	.768860	.773234	.782124	.785537	.792749	
	410	.759829	.767720	.774143	.779644	.785956	.790201	.798819	.802125	.809100	
	420	.777601	.785272	.791506	.796840	.802953	.807060	.815385	.818574	.825295	
	430	.795334	.802764	.808795	.813947	.819844	.823801	.831811	.834875	.841323	
	440	.813026	.820194	.826002	.830956	.836620	.840415	.848085	.851013	.857169	
	450	.830671	.837553	.843119	.847859	.853269	.856890	.864191	.866975	.872815	
	460	.848265	.854834	.860135	.864643	.869778	.873208	.880112	.882738	.888238	
	470	.865801	.872026	.877039	.881292	.886127	.889350	.895821	.898276	.903409	
	480	.883269	.889116	.893811	.897785	.902291	.905288	.911287	.913557	.918289	
	490	.900659	.906086	.910429	.914094	.918237	.920985	.926466	.928532	.932826	
	500	.917951	.922908	.926858	.930179	.933918	.936389	.941294	.943136	.946946	
	510	.935119	.939541	.943045	.945777	.949260	.951419	.955678	.957266	.960536	
	520	.952118	.955919	.959906	.961386	.964143	.965942	.969459	.970759	.973411	
	530	.969864	.971912	.974275	.976212	.978338	.979708	.982343	.983301	.985226	
	540	.985144	.987200	.988744	.989975	.991283	.992102	.993614	.994141	.995162	
	550	.999594	.999808	.999907	.999954	.999982	.999991	.999998	.999999	1.000000	
575	260	.468825	.477990	.485565	.492138	.499780	.504984	.515706	.519878	.528792	
	270	.486241	.495413	.502987	.509555	.517188	.522381	.533074	.537232	.546111	
	280	.503636	.512803	.520368	.526923	.534536	.539713	.550365	.554503	.563336	
	290	.521099	.530161	.537707	.544242	.551826	.556980	.567578	.571692	.580469	
	300	.538361	.547486	.555005	.561512	.569058	.574183	.584714	.588799	.597508	
	310	.555692	.564779	.572261	.578732	.586231	.591321	.601772	.605824	.614455	
	320	.573001	.582040	.589476	.595902	.603345	.608394	.618752	.622765	.631309	
	330	.590289	.599268	.606648	.613023	.620400	.625401	.635654	.639623	.648068	
	340	.607555	.616462	.623778	.630092	.637395	.642342	.652476	.656396	.664731	
	350	.624799	.633623	.640864	.647110	.654328	.659215	.669216	.673082	.681297	
	360	.642020	.650749	.657906	.664075	.671198	.676018	.685874	.689680	.697763	
	370	.659217	.667839	.674903	.680985	.688004	.692750	.702444	.706188	.714128	
	380	.676391	.684893	.691852	.697840	.704744	.709409	.718931	.722603	.730387	
	390	.693539	.701909	.708753	.714636	.721415	.725992	.735325	.738920	.746537	
	400	.710662	.718885	.725603	.731373	.738015	.742496	.751625	.755138	.762575	
	410	.727758	.735821	.742400	.748046	.754540	.758918	.767825	.771250	.778483	
	420	.744824	.752712	.759141	.764654	.770987	.775252	.783922	.787252	.794297	
	430	.761861	.769558	.775824	.781191	.787350	.791495	.799909	.803137	.809950	
	440	.778866	.786354	.792443	.797653	.803625	.807639	.815778	.818896	.825471	
	450	.795935	.803098	.808995	.814034	.819804	.823678	.831521	.834522	.840842	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
575	460	.812767	.819785	.825474	.830329	.835880	.839603	.847128	.850003	.856049
	470	.829659	.836409	.841872	.846527	.851843	.855402	.862585	.865324	.871077
	480	.846503	.852963	.858181	.862620	.867680	.871062	.877875	.880469	.885906
	490	.863297	.869439	.874389	.879593	.88375	.886567	.892979	.895415	.900512
	500	.880032	.885826	.890483	.894430	.898909	.901892	.907870	.910135	.914862
	510	.896698	.902107	.906443	.910107	.914254	.917008	.922511	.924589	.928915
	520	.913280	.918263	.922241	.925591	.929371	.931874	.936853	.938726	.942610
	530	.929760	.934261	.937837	.940837	.944205	.946426	.950822	.952466	.955861
	540	.946103	.950052	.953169	.955768	.958668	.960569	.964303	.965689	.968537
	550	.962252	.965550	.968126	.970253	.972604	.974131	.977094	.978182	.980387
560	560	.978096	.980569	.982470	.984013	.985687	.986754	.988776	.989500	.990937
	570	.992205	.994510	.995446	.996161	.996886	.997319	.998068	.998312	.998754
600	260	.449601	.458552	.465957	.472387	.477869	.484967	.495480	.499573	.508327
	270	.466313	.475283	.482698	.489132	.496615	.501709	.512210	.516296	.525079
	280	.483006	.491984	.499400	.505832	.513306	.518393	.528869	.532943	.541645
	290	.499690	.508656	.516065	.522487	.529945	.535018	.545459	.549516	.558178
	300	.516335	.525299	.532693	.539098	.546532	.551595	.561979	.566015	.574627
	310	.532971	.541913	.549284	.555664	.563066	.568094	.578429	.582440	.590993
	320	.549587	.558498	.565837	.572186	.579547	.584545	.594810	.598791	.607275
	330	.566195	.575054	.582353	.589664	.596976	.600937	.611121	.615067	.623474
	340	.582763	.591580	.598832	.605097	.612351	.617271	.627361	.631269	.639588
	350	.599322	.608077	.615272	.621484	.629672	.633545	.643530	.647394	.655616
360	360	.615860	.624543	.631673	.637825	.644939	.649758	.659626	.663443	.671558
	370	.632379	.640979	.648035	.654119	.661150	.665910	.675649	.679413	.687410
380	.648896	.657383	.664356	.670365	.677304	.681998	.691596	.695303	.703173	
390	.665353	.673755	.680636	.686562	.693400	.698022	.707466	.711110	.718843	
400	.681807	.690093	.696873	.702708	.709455	.713979	.723256	.726833	.734416	
410	410	.698239	.706397	.713066	.718801	.725007	.729867	.738963	.742467	.749891
	420	.714547	.722665	.729213	.734839	.741315	.745683	.754584	.758010	.765262
430	.731031	.738895	.745312	.750820	.757154	.761424	.770115	.773457	.780526	
440	.747389	.755086	.761360	.766740	.772922	.777086	.785552	.788804	.795676	
450	.763719	.771234	.777354	.782597	.788615	.792664	.800889	.804044	.810707	
460	460	.780019	.787339	.793291	.798385	.804227	.808154	.816119	.819171	.825610
	470	.796289	.803396	.809167	.814101	.819753	.823548	.831235	.834177	.840376
480	.812524	.819401	.824977	.829738	.835185	.838838	.846227	.849052	.854994	
490	.828723	.835349	.840715	.845290	.850515	.854016	.861085	.863783	.869451	
500	.844880	.851236	.856373	.860746	.865733	.869069	.875794	.878356	.883730	
510	510	.860992	.867052	.871941	.876096	.880825	.883984	.890337	.892752	.897810
	520	.877052	.882790	.887408	.891325	.895774	.898740	.904691	.906948	.911665
530	.893051	.898436	.902758	.906414	.910558	.913314	.918827	.920912	.925258	
540	.908979	.913973	.917968	.921338	.925146	.927671	.932704	.934601	.938543	
550	.924819	.929377	.933007	.936059	.939493	.941762	.946265	.947954	.951450	
560	560	.940546	.944610	.947828	.950520	.953534	.955515	.959423	.960880	.963878
	570	.956121	.959611	.962353	.964629	.967158	.968809	.972034	.973225	.975656
580	.971465	.974262	.976429	.978206	.980155	.981412	.983827	.984705	.986469	
590	.986394	.988270	.989685	.990813	.992013	.992763	.994149	.994632	.995567	
600	.999628	.999824	.999915	.999958	.999983	.999992	.999998	.999999	1.000000	
625	310	.512026	.520814	.528063	.534344	.541636	.546594	.556793	.560755	.569211
	320	.528002	.536772	.544002	.550262	.557526	.562462	.572610	.576550	.584953
	330	.543961	.552704	.559907	.566140	.573368	.578278	.588364	.592277	.600620
	340	.559907	.568610	.575778	.581978	.589163	.594041	.604055	.607938	.616211
	350	.575826	.584489	.591616	.597775	.604910	.609751	.619683	.623531	.631726
	360	.591733	.600341	.607419	.613532	.620609	.625407	.635246	.639056	.647164
	370	.607622	.616167	.623187	.629247	.636258	.641009	.650744	.654511	.662524
	380	.623492	.631965	.638920	.644920	.651858	.656557	.666177	.669897	.677805
	390	.639344	.647734	.654617	.660551	.667407	.672047	.681542	.685211	.693006
	400	.655177	.663475	.670277	.676137	.682903	.687480	.696838	.700451	.708123

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
625	410	.670991	.679187	.685899	.691678	.698346	.702854	.712063	.715617	.723156
	420	.686785	.694868	.701482	.707173	.713735	.718167	.727215	.730704	.738101
	430	.702558	.710517	.717025	.722619	.729065	.733417	.742297	.745711	.752955
	440	.718309	.726134	.732525	.738016	.744337	.748601	.757290	.760634	.767715
	450	.734038	.741716	.747981	.753360	.759546	.763717	.772206	.775470	.782377
	460	.749743	.757262	.763391	.768649	.774690	.778760	.787035	.790215	.796935
	470	.765423	.772770	.778753	.783879	.789765	.793727	.801773	.804862	.811383
	480	.781076	.788237	.794062	.799048	.804767	.808617	.816414	.819406	.825716
	490	.796701	.803661	.809316	.814151	.819691	.823412	.830952	.833835	.839924
	500	.812295	.819038	.824509	.829182	.834529	.838117	.845377	.848154	.853998
	510	.827856	.834365	.839638	.844136	.849276	.852771	.859681	.862339	.867926
	520	.843390	.849635	.854694	.859004	.863922	.867213	.873851	.876382	.881694
	530	.858852	.864843	.869671	.873777	.878454	.881580	.887873	.890267	.895284
	540	.874299	.879981	.884558	.888443	.892860	.895807	.901726	.903974	.908674
	550	.889632	.895038	.899341	.902985	.907120	.909873	.915387	.917476	.921833
560	.905003	.910000	.914002	.917384	.921210	.923750	.928823	.930738	.934723	
570	.920249	.924848	.928518	.931608	.935093	.937399	.941987	.943712	.947289	
580	.935401	.939553	.942850	.945615	.948719	.950765	.954812	.956327	.959452	
590	.950429	.954070	.956942	.959335	.962006	.963757	.967193	.968470	.971085	
600	.965281	.968318	.970690	.972649	.974813	.976218	.978945	.979945	.981974	
610	.979842	.982128	.983878	.985298	.986838	.987820	.989680	.990347	.991668	
620	.993749	.994949	.995811	.996469	.997136	.997534	.998223	.998447	.998854	
650	310	.492659	.501295	.508408	.514583	.521757	.526639	.536689	.540597	.548942
	320	.508041	.516661	.523774	.529937	.537094	.541961	.551976	.555867	.564173
	330	.523408	.532013	.539110	.545255	.552388	.557236	.567206	.571077	.579337
	340	.538758	.547342	.554415	.560537	.567639	.572463	.582379	.586227	.594432
	350	.554093	.562646	.569689	.575783	.582847	.587643	.597494	.601315	.609459
	360	.569413	.577927	.584933	.590991	.598011	.602774	.612552	.616343	.624417
	370	.584716	.593183	.600146	.606163	.613131	.617858	.627553	.631309	.639305
	380	.600004	.608415	.615328	.621298	.628208	.632892	.642495	.646212	.654123
	390	.615275	.623622	.630478	.636395	.643239	.647877	.657377	.661053	.668870
	400	.630520	.638804	.645595	.651453	.658225	.662811	.672199	.675829	.683544
	410	.645767	.653960	.660680	.666472	.673164	.677694	.686959	.690539	.698145
	420	.660987	.669090	.675730	.681451	.688056	.692523	.701656	.705182	.712669
	430	.676190	.684193	.690746	.696389	.702898	.707299	.716288	.719757	.727116
	440	.691374	.699267	.705726	.711283	.717690	.722018	.730853	.734259	.741482
	450	.706539	.714313	.720669	.726134	.732430	.736680	.745349	.748688	.755765
460	.721684	.729329	.735573	.740938	.747114	.751281	.759772	.763041	.769961	
470	.736809	.744313	.750437	.755695	.761742	.765820	.774120	.777313	.784067	
480	.751912	.759264	.765259	.770401	.776310	.780292	.788389	.791501	.798078	
490	.766991	.774180	.780036	.785053	.790816	.794694	.802575	.805600	.811989	
500	.782047	.789050	.794765	.799650	.805254	.809023	.816671	.819605	.825794	
510	.797077	.803899	.809443	.814186	.819620	.823272	.830674	.833509	.839486	
520	.812078	.818696	.824067	.828656	.833910	.837436	.844574	.847305	.853055	
530	.827050	.833447	.838632	.843057	.848116	.851508	.858364	.860984	.866493	
540	.841988	.848148	.853132	.857380	.862231	.865478	.872033	.874534	.879785	
550	.856889	.862792	.867560	.871618	.876244	.879337	.885569	.887942	.892918	
560	.871749	.877373	.881908	.885760	.890144	.893070	.898954	.901190	.905871	
570	.886561	.891883	.896164	.899793	.903915	.906661	.912169	.914257	.918619	
580	.901319	.906310	.910313	.913699	.917535	.920085	.925185	.927113	.931131	
590	.916012	.920638	.924336	.927454	.930977	.933313	.937965	.939720	.943362	
600	.930625	.934844	.938203	.941025	.944200	.946298	.950459	.952020	.955249	
610	.945136	.948895	.951870	.954358	.957144	.958974	.962584	.963930	.966698	
620	.959577	.962733	.965266	.967369	.969705	.971230	.974208	.975308	.977552	
630	.973665	.976249	.978251	.979892	.981692	.982852	.985081	.985892	.987520	
640	.987433	.989174	.990481	.991523	.992630	.993322	.994601	.995048	.995910	
650	.999657	.999838	.999921	.999961	.999985	.999992	.999998	.999999	1.000000	



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	r	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
675	310	.474699	.483161	.490153	.496218	.503271	.508072	.517965	.521813	.530039
	320	.489529	.497994	.504985	.511046	.518090	.522882	.532753	.536591	.544789
	330	.504345	.512306	.519789	.525840	.532869	.537650	.547489	.551312	.559476
	340	.519146	.527596	.534565	.540602	.547609	.552373	.562173	.565979	.574101
	350	.533933	.542364	.549313	.555330	.562311	.567054	.576805	.580590	.588664
	360	.548706	.557111	.564034	.570025	.576973	.581691	.591385	.595146	.603165
	370	.563465	.571836	.578727	.584687	.591595	.596285	.605913	.609647	.617603
	380	.578209	.586539	.593392	.599316	.606178	.610834	.620389	.624092	.631978
	390	.592939	.601220	.608029	.613911	.620721	.625340	.634812	.638480	.646290
	400	.607654	.615878	.622636	.628471	.635223	.639800	.649180	.652811	.660537
410	.622354	.630514	.637215	.642997	.649685	.654215	.663495	.667085	.674719	
420	.637039	.645127	.651764	.657488	.664104	.668584	.677754	.681299	.688834	
430	.651708	.659716	.666282	.671942	.678480	.682905	.691956	.695452	.702880	
440	.666361	.674280	.680770	.686360	.692813	.697177	.706099	.709544	.716858	
450	.680998	.688820	.695225	.700739	.707100	.711400	.720184	.723573	.730763	
460	.695618	.703334	.709647	.715079	.721341	.725571	.734206	.737535	.744594	
470	.710221	.717821	.724035	.729378	.735533	.739689	.748164	.751430	.758349	
480	.724805	.732281	.738388	.743635	.749675	.753751	.762056	.765254	.772024	
490	.739370	.746712	.752704	.757848	.763765	.767755	.775879	.779004	.785616	
500	.753916	.761112	.766980	.772014	.777800	.781699	.789629	.792677	.799121	
510	.768440	.775480	.781216	.786131	.791777	.795578	.803303	.806269	.812534	
520	.782942	.789815	.795408	.800197	.805693	.809390	.816895	.819774	.825850	
530	.797420	.804113	.809553	.814208	.819543	.823129	.830400	.833187	.839062	
540	.811873	.818372	.823649	.828159	.833323	.836791	.843813	.846501	.852162	
550	.826298	.832590	.837691	.842046	.847027	.850368	.857125	.859708	.865142	
560	.840693	.846761	.851674	.855863	.860648	.863854	.870328	.872799	.877991	
570	.855054	.860882	.865592	.869603	.874178	.877239	.883409	.885761	.890695	
580	.869379	.874946	.879438	.883257	.887606	.890510	.896356	.898580	.903237	
590	.883661	.888947	.893202	.896813	.900918	.903655	.909150	.911236	.915598	
600	.897896	.902874	.906872	.910258	.914097	.916653	.921770	.923707	.927749	
610	.912073	.916715	.920432	.923570	.927121	.929478	.934183	.935959	.939654	
620	.926182	.930451	.933857	.936724	.939957	.942096	.946349	.947948	.951263	
630	.940204	.944056	.947115	.949678	.952556	.954453	.958204	.959607	.962502	
640	.954113	.957489	.960151	.962370	.964845	.966467	.969651	.970833	.973255	
650	.967859	.970674	.972872	.974687	.976692	.977994	.980519	.981445	.983323	
660	.981338	.983456	.985077	.986392	.987818	.988727	.990450	.991066	.992289	
670	.994212	.995324	.996122	.996731	.997349	.997717	.998355	.998563	.998939	
700	310	.457998	.466295	.473155	.479110	.486037	.490756	.500485	.504273	.512372
	320	.472314	.480622	.487487	.493444	.500370	.505086	.514804	.518585	.526667
	330	.486616	.494929	.501794	.507748	.514667	.519376	.529074	.532846	.540904
	340	.500906	.509216	.516075	.522021	.528928	.533626	.543297	.547057	.555084
	350	.515182	.523483	.530332	.536265	.543153	.547837	.557473	.561217	.569208
	360	.529445	.537731	.544562	.550478	.557343	.562008	.571601	.575327	.583274
	370	.543696	.551959	.558768	.564661	.571496	.576140	.585682	.589386	.597284
	380	.557933	.566167	.572948	.578814	.585614	.590231	.599716	.603395	.611236
	390	.572158	.580355	.587102	.592936	.599696	.604283	.613701	.617353	.625131
	400	.586369	.594523	.601231	.607028	.613741	.618295	.627639	.631259	.638969
410	.600567	.608671	.615333	.621088	.627749	.632266	.641527	.645114	.652747	
420	.614751	.622798	.629410	.635117	.641720	.646196	.655366	.658916	.666467	
430	.628921	.636904	.643459	.649114	.655654	.660083	.669155	.672664	.680126	
440	.643078	.650989	.657481	.663079	.669548	.673928	.682893	.686358	.693723	
450	.657220	.665052	.671474	.677010	.683403	.687729	.696578	.699997	.707258	
460	.671347	.679093	.685440	.690907	.697217	.701485	.710210	.713578	.720729	
470	.685459	.693110	.699375	.704768	.710990	.715196	.723786	.727101	.734133	
480	.699556	.707104	.713280	.718594	.724720	.728858	.737305	.740563	.747469	
490	.713636	.721073	.727154	.732382	.738405	.742472	.750766	.753962	.760734	
500	.727700	.735017	.740995	.746130	.752044	.756034	.764165	.767296	.773926	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
700	510	.741746	.748934	.754801	.759838	.765634	.769542	.777500	.780562	.787040
	520	.755773	.762823	.768572	.773504	.779174	.782995	.790768	.793756	.800075
	530	.769782	.776682	.782304	.787124	.792661	.796389	.803966	.806876	.813025
	540	.783769	.790510	.795997	.800697	.806091	.809720	.817089	.819916	.825885
	550	.797735	.804305	.809648	.814219	.819461	.822985	.830132	.832872	.838650
	560	.811678	.818065	.823252	.827637	.832767	.836178	.843091	.845737	.851313
	570	.825595	.831786	.836808	.841096	.846003	.849295	.855957	.858505	.863867
	580	.839485	.845465	.850310	.854442	.859164	.862329	.868724	.871166	.876300
	590	.853345	.859099	.863753	.867717	.872242	.875271	.881381	.883711	.888602
	600	.867171	.872681	.877131	.880915	.885228	.888111	.893916	.896126	.900759
700	610	.880960	.886207	.890435	.894025	.898110	.900836	.906315	.908396	.912752
	620	.894705	.899667	.903556	.907337	.910875	.913431	.918558	.920501	.924558
	630	.908401	.913051	.916779	.919932	.923502	.925875	.930619	.932413	.936148
	640	.922037	.926344	.929786	.932639	.935966	.938138	.942465	.944095	.947481
	650	.935600	.939525	.942650	.945275	.948228	.950178	.954046	.955497	.958497
	660	.949068	.952564	.955331	.957644	.960233	.961934	.965288	.966538	.969109
	670	.962407	.965406	.967761	.969715	.971885	.973302	.976608	.977090	.979174
	680	.975550	.977951	.979811	.981335	.983007	.984085	.986155	.986907	.988419
	690	.988332	.989949	.991163	.992130	.993158	.993801	.994989	.995403	.996204
	700	.999681	.999849	.999927	.999964	.999986	.999993	.999999	.999999	1.000000
725	360	.511485	.519646	.526378	.532212	.538987	.543594	.553074	.556758	.564623
	370	.525261	.533608	.540126	.545945	.552699	.557289	.566732	.570399	.578225
	380	.539024	.547152	.553851	.559650	.566378	.570949	.580346	.583994	.591775
	390	.552776	.560878	.567552	.573327	.580024	.584572	.593917	.597542	.605273
	400	.566516	.574586	.581230	.586977	.593637	.598159	.607444	.611044	.618718
	410	.580243	.588276	.594885	.600598	.607217	.611708	.620927	.624499	.632110
	420	.593959	.601947	.608516	.614131	.620763	.625221	.634365	.637907	.645450
	430	.607662	.615599	.622122	.627755	.634276	.638696	.647758	.651267	.658735
	440	.621352	.629232	.635704	.641291	.647754	.652133	.661106	.664578	.671965
	450	.635030	.642846	.649262	.654797	.661197	.665531	.674407	.677840	.685139
725	460	.648695	.656440	.662794	.668273	.674604	.678890	.687661	.691052	.698257
	470	.662346	.670014	.676300	.681717	.687974	.692208	.700867	.704212	.711317
	480	.675984	.683567	.689779	.695130	.701307	.705484	.714022	.717319	.724316
	490	.689608	.697099	.703232	.708511	.714601	.718718	.727127	.730371	.737255
	500	.703218	.710609	.716656	.721858	.727856	.731908	.740179	.743368	.750130
	510	.716812	.724096	.730050	.735170	.741069	.745052	.753176	.756306	.762940
	520	.730391	.737559	.743415	.748445	.754240	.758149	.766117	.769185	.775682
	530	.743954	.750998	.756748	.761635	.767365	.771196	.778998	.782000	.788353
	540	.757499	.764410	.770047	.774884	.780444	.784192	.791817	.794749	.800949
	550	.771027	.777796	.783312	.788041	.793474	.797133	.804572	.807429	.813468
725	560	.784536	.791153	.796540	.801154	.806452	.810017	.817257	.820036	.825904
	570	.798025	.804479	.809728	.814221	.819374	.822839	.829869	.832565	.838252
	580	.811492	.817773	.822875	.827238	.832238	.835596	.842404	.845011	.850506
	590	.824937	.831031	.835977	.840232	.845038	.848283	.854853	.857367	.862660
	600	.838356	.844252	.849030	.853107	.857768	.860894	.867212	.869626	.874704
	610	.851748	.857430	.862029	.865948	.870424	.873421	.879471	.881779	.886628
	620	.865109	.870563	.874969	.878719	.882996	.885856	.891620	.893815	.898421
	630	.878437	.883644	.887843	.891412	.895475	.898188	.903645	.905721	.910067
	640	.891726	.896666	.900642	.904015	.907848	.910403	.915531	.917477	.921545
	650	.904971	.909621	.913355	.916516	.920099	.922483	.927257	.929063	.932831
725	660	.918163	.922497	.925956	.928835	.932207	.934406	.938793	.940448	.943891
	670	.931292	.935276	.938454	.941123	.944142	.946136	.950100	.951591	.954679
	680	.944342	.947935	.950787	.953177	.955859	.957627	.961122	.962429	.965125
	690	.957287	.960434	.962916	.964983	.967289	.968800	.971766	.972867	.975122
	700	.970081	.972704	.974752	.976442	.978310	.979522	.981874	.982736	.984484

TABLE I. - Continued, COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
725	710	.982627	.984609	.986110	.987334	.988662	.989509	.991112	.991686	.992825
	720	.994612	.995647	.996390	.996957	.997532	.997875	.998469	.998662	.999013
750	360	.494699	.502730	.509350	.515109	.521788	.526333	.535691	.539330	.547103
	370	.508030	.516055	.522678	.528417	.535083	.539617	.548948	.552574	.560318
	380	.521350	.529364	.535975	.541701	.548348	.552867	.562165	.565776	.573485
	390	.534658	.542656	.549250	.554958	.561583	.566085	.575341	.578936	.586604
	400	.547956	.555932	.562503	.568191	.574788	.579269	.588478	.592053	.599675
	410	.561243	.569191	.575735	.581338	.587962	.592419	.601575	.605127	.612698
	420	.574518	.582433	.588947	.594579	.601106	.605536	.614632	.618158	.625672
	430	.587783	.595658	.602136	.607734	.614219	.618619	.627647	.631146	.638598
	440	.601036	.608866	.615303	.620854	.627302	.631668	.640622	.644091	.651475
	450	.614278	.622056	.628447	.633956	.640352	.644681	.653555	.656990	.664301
	460	.627508	.635229	.641570	.647042	.653371	.657660	.666446	.669845	.677076
	470	.640727	.648384	.654669	.660093	.666358	.670602	.679293	.682654	.689830
	480	.653933	.661521	.667744	.673110	.679311	.683508	.692097	.695417	.702471
	490	.667127	.674638	.680796	.686102	.692230	.696376	.704856	.708131	.715089
	500	.680309	.687737	.693823	.699064	.705114	.709206	.717568	.720797	.727650
	510	.693477	.700816	.706824	.711996	.717963	.721996	.730233	.733412	.740155
520	.706632	.713874	.719800	.724897	.730774	.734745	.742849	.745974	.752601	
530	.719773	.726911	.732748	.737756	.743548	.747451	.755415	.758483	.764987	
540	.732900	.739927	.745558	.750501	.756281	.760114	.767928	.770936	.777309	
550	.746012	.752919	.758558	.763401	.768973	.772731	.780386	.783331	.789565	
560	.759107	.765888	.771418	.776154	.781622	.785300	.792786	.795665	.801753	
570	.772187	.778831	.784246	.789033	.794225	.797819	.805126	.807934	.813868	
580	.785249	.791748	.797040	.801574	.806780	.810284	.817403	.820136	.825907	
590	.798292	.804636	.809797	.814215	.819285	.822693	.829612	.832266	.837865	
600	.811316	.817495	.822515	.826811	.831734	.835042	.841749	.844319	.849737	
610	.824318	.830321	.835194	.839358	.844125	.847326	.853809	.856290	.861515	
620	.837298	.843112	.847826	.851851	.856453	.859541	.865785	.868172	.873194	
630	.850252	.855865	.860410	.864285	.868713	.871679	.877670	.879957	.884764	
640	.863179	.868576	.872940	.876556	.880896	.883733	.889454	.891635	.896213	
650	.876075	.881241	.885410	.889556	.892995	.895694	.901128	.903195	.907529	
660	.888936	.893853	.897813	.901175	.904999	.907550	.912675	.914622	.918695	
670	.901758	.906405	.910139	.913303	.916894	.919286	.924080	.925896	.929689	
680	.914534	.918886	.922375	.925324	.928663	.930882	.935317	.936993	.940484	
690	.927255	.931284	.934504	.937213	.940281	.942312	.946355	.947878	.951040	
700	.939908	.943579	.946500	.948954	.951713	.953536	.957149	.958503	.961305	
710	.952474	.955741	.958327	.960439	.962907	.964496	.967628	.968795	.971195	
720	.964920	.967722	.969921	.971745	.973773	.975096	.977678	.978632	.980577	
730	.977184	.979426	.981162	.982586	.984146	.985152	.987085	.987787	.989198	
740	.989111	.990620	.991754	.992656	.993616	.994216	.995324	.995711	.996458	
750	.999703	.999860	.999932	.999956	.999987	.999993	.999999	.999999	1.000000	
775	360	.478977	.486875	.493401	.499061	.505642	.510121	.519352	.522943	.530618
	370	.491890	.499790	.506313	.511970	.518543	.523016	.532228	.535811	.543465
	380	.504793	.512689	.519207	.524855	.531417	.535880	.545068	.548640	.556267
	390	.517685	.525573	.532080	.537718	.544263	.548714	.557872	.561430	.569025
	400	.530568	.538442	.544934	.550556	.557082	.561517	.570638	.574180	.581740
	410	.543441	.551296	.557769	.563372	.569872	.574289	.583368	.586892	.594410
	420	.556304	.564134	.570583	.576154	.582635	.587030	.596061	.599564	.607036
	430	.569156	.576956	.583378	.588932	.595373	.599740	.608716	.612197	.619617
	440	.581998	.589763	.595653	.601676	.608076	.612419	.621335	.624790	.632153
	450	.594830	.602555	.608907	.614397	.620754	.625067	.633915	.637343	.644644
	460	.607651	.615330	.621542	.627093	.633404	.637683	.646458	.649856	.657090
	470	.620462	.628089	.634355	.639755	.646024	.650266	.658961	.662327	.669489
	480	.633262	.640832	.647048	.652411	.658614	.662817	.671426	.674756	.681840
	490	.646051	.653558	.659719	.665032	.671174	.675334	.683850	.687143	.694144
	500	.658829	.666267	.672368	.677627	.683704	.687817	.696233	.699486	.706399

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
775	510	.671596	.678959	.684995	.690195	.696201	.700265	.708575	.711785	.718603	
	520	.684350	.691633	.697599	.702736	.708667	.712677	.720874	.724038	.730756	
	530	.697093	.704288	.710179	.715249	.721099	.725052	.733128	.736244	.742856	
	540	.709823	.716925	.722735	.727733	.733496	.737393	.745337	.748402	.754901	
	550	.722540	.729541	.735265	.740187	.745858	.749688	.757499	.760509	.766889	
	560	.735244	.742138	.747770	.752610	.758183	.761945	.769612	.772565	.778819	
	570	.747934	.754713	.760247	.765000	.770470	.774159	.781674	.784566	.790688	
	580	.760609	.767266	.772596	.777355	.782716	.786329	.793683	.796511	.802493	
	590	.773269	.779795	.785115	.789677	.794920	.798452	.805635	.808395	.814231	
	600	.785912	.792300	.797502	.801950	.807080	.810526	.817529	.820218	.825898	
	610	.798539	.804779	.809856	.814203	.819192	.822548	.829360	.831973	.837490	
	620	.811147	.817230	.822174	.826404	.831254	.834514	.841125	.843658	.849002	
	630	.823736	.829651	.834454	.838550	.843262	.846420	.852818	.855268	.860429	
	640	.836303	.842040	.846593	.850555	.855212	.858262	.864435	.866795	.871764	
	650	.848848	.854394	.858887	.862719	.867099	.870035	.875968	.878234	.882998	
	660	.861367	.866710	.871032	.874714	.878917	.881731	.887409	.889575	.894123	
	670	.873859	.878983	.883122	.886544	.890658	.893342	.897879	.900808	.905127	
	680	.886319	.891210	.895152	.898501	.902313	.904858	.909976	.911922	.915995	
	690	.898744	.903382	.907113	.910277	.913871	.916267	.921074	.922898	.926709	
	700	.911128	.915492	.918994	.921957	.925317	.927551	.932024	.933716	.937245	
	710	.923464	.927528	.930781	.933526	.936630	.938689	.942799	.944349	.947573	
	720	.935741	.939475	.942453	.944959	.947782	.949650	.953362	.954757	.957647	
	730	.947944	.951311	.953982	.956221	.958732	.960387	.963659	.964882	.967505	
	740	.960050	.962997	.965321	.967257	.969416	.970830	.973605	.974635	.976746	
	750	.972015	.974471	.976388	.977973	.979718	.980852	.983052	.983859	.985495	
	760	.983750	.985596	.987009	.988155	.989397	.990189	.991689	.992226	.993291	
	770	.994959	.995928	.996623	.997134	.997692	.998012	.998568	.998749	.999076	
	800	360	.464220	.471985	.478405	.483975	.490455	.494868	.503967	.507508	.515081
		370	.476740	.484513	.490935	.496507	.502985	.507395	.516483	.520020	.527578
		380	.489251	.497027	.503449	.509017	.515489	.519894	.528966	.532494	.540034
390		.501753	.509527	.515944	.521506	.527968	.532363	.541414	.544933	.552448	
400		.514246	.522012	.528420	.533972	.540420	.544805	.553829	.557335	.564822	
410		.526729	.534484	.540879	.546418	.552847	.557218	.566209	.569702	.577156	
420		.539203	.546941	.553319	.558841	.565249	.569603	.578556	.582032	.589448	
430		.551667	.559384	.565741	.571243	.577624	.581959	.590868	.594326	.601700	
440		.564123	.571813	.578145	.583623	.589974	.594287	.603147	.606583	.613910	
450		.576568	.584227	.590531	.595981	.602298	.606586	.615390	.618804	.626080	
	460	.589005	.596627	.602897	.608317	.614596	.618856	.627600	.630988	.638207	
	470	.601442	.609012	.615246	.620631	.625867	.631097	.639774	.643135	.650293	
	480	.613849	.621383	.627575	.632922	.639112	.643308	.651912	.655244	.662335	
	490	.626256	.633738	.639885	.645191	.651329	.655489	.664015	.667314	.674335	
	500	.638653	.646079	.652175	.657436	.663519	.667640	.676081	.679346	.686291	
	510	.651040	.658403	.664446	.669657	.675680	.679759	.688109	.691338	.698201	
	520	.663416	.670712	.676596	.681854	.687813	.691846	.700100	.703289	.710067	
	530	.675782	.683005	.688925	.694026	.699916	.703901	.712051	.715199	.721885	
	540	.688137	.695280	.701132	.706172	.711989	.715923	.723962	.727066	.733655	
	550	.700480	.707539	.713318	.718293	.724031	.727910	.735833	.738890	.745376	
	560	.712812	.719780	.725481	.730386	.736041	.739861	.747660	.750668	.757046	
	570	.725132	.732003	.737621	.742451	.748018	.751776	.759444	.762399	.768663	
	580	.737439	.744206	.749736	.754488	.759960	.763653	.771182	.774082	.780225	
	590	.749733	.756390	.761826	.766494	.771866	.775490	.782873	.785714	.791730	
	600	.762014	.768553	.773889	.778468	.783735	.787286	.794514	.797294	.803176	
	610	.774281	.780695	.785924	.790409	.795565	.799038	.806103	.808818	.814560	
	620	.786532	.792813	.797930	.802315	.807353	.810744	.817637	.820284	.825877	
	630	.798767	.804908	.809905	.814185	.819097	.822402	.829114	.831689	.837126	
	640	.810986	.816976	.821847	.826015	.830795	.834009	.840528	.843027	.848300	
	650	.823187	.829017	.833754	.837804	.842443	.845560	.851877	.854296	.859395	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
800	660	.835368	.841029	.845623	.849547	.854038	.857053	.863155	.865490	.870406	
	670	.847528	.853008	.857450	.851241	.865575	.868481	.874356	.876601	.881324	
	680	.859665	.864953	.869233	.872831	.877048	.879839	.885473	.887624	.892142	
	690	.871776	.876859	.880966	.884453	.888451	.891119	.896498	.898548	.902850	
	700	.883859	.888721	.892544	.895979	.899777	.902314	.907421	.909363	.913434	
	710	.895911	.900536	.904250	.907421	.911015	.913412	.918227	.920055	.923879	
	720	.907926	.912294	.915805	.918778	.922152	.924399	.928900	.930606	.934166	
	730	.919898	.923988	.927255	.930035	.933172	.935256	.939419	.940992	.944268	
	740	.931819	.935604	.938627	.941176	.944052	.945958	.949753	.951182	.954148	
	750	.943676	.947124	.949856	.952159	.954759	.956469	.959859	.961129	.963757	
	760	.955453	.958520	.960947	.962975	.965243	.966734	.969672	.970766	.973017	
	770	.967117	.969747	.971810	.973522	.975423	.976664	.979085	.979980	.981803	
	780	.978612	.980716	.982344	.983679	.985142	.986085	.987897	.988555	.989878	
	790	.989792	.991208	.992270	.993117	.994016	.994579	.995618	.995980	.996681	
	800	.999721	.999868	.999936	.999953	.999987	.999994	.999999	.999999	1.000000	
	825	410	.511010	.518660	.524973	.530444	.536798	.541119	.550014	.553471	.560854
		420	.523118	.530758	.537060	.542519	.548857	.553166	.562031	.565475	.572828
		430	.535217	.542843	.549130	.554574	.55892	.565186	.574017	.577446	.584764
		440	.547307	.554914	.561182	.566608	.572903	.577179	.585971	.589383	.596683
		450	.559389	.566972	.573218	.578623	.584890	.589147	.597893	.601287	.608523
460		.571462	.579017	.585237	.590617	.596854	.601087	.609783	.613156	.620346	
470		.583526	.591049	.597239	.602591	.608793	.613002	.621642	.624992	.632130	
480		.595582	.603067	.609224	.614545	.620707	.624889	.633468	.636793	.643875	
490		.607628	.615072	.621191	.626477	.632598	.636748	.645262	.648559	.655581	
500		.619666	.627062	.633140	.638389	.644463	.648580	.657022	.660290	.667247	
	510	.631694	.639039	.645072	.650279	.656302	.660384	.668749	.671986	.678872	
	520	.643713	.651002	.656985	.662147	.668116	.672160	.680441	.683645	.690457	
	530	.655722	.662949	.668879	.673993	.679904	.683906	.692099	.695266	.702000	
	540	.667722	.674883	.680755	.685817	.691665	.695623	.703721	.706850	.713500	
	550	.679711	.686800	.692511	.697617	.703398	.707309	.715306	.718395	.724956	
	560	.691690	.698703	.704447	.709394	.715103	.718964	.726854	.729901	.736368	
	570	.703659	.710589	.716252	.721145	.726779	.730586	.738364	.741365	.747733	
	580	.715617	.722459	.728056	.732872	.738425	.742176	.749834	.752787	.759050	
	590	.727564	.734311	.739829	.744573	.750039	.753731	.761263	.764166	.770319	
	600	.739499	.746146	.751578	.756245	.761622	.765251	.772649	.775499	.781536	
	610	.751422	.757963	.763304	.767891	.773171	.776734	.783991	.786785	.792700	
	620	.763332	.769760	.775005	.779507	.784686	.788178	.795287	.798021	.803808	
	630	.775229	.781536	.786680	.791392	.796164	.799581	.806534	.809206	.814858	
	640	.787111	.793292	.798327	.802544	.807603	.810942	.817730	.820337	.825848	
	650	.798980	.805025	.809946	.814152	.819001	.822258	.828872	.831411	.836772	
	660	.810832	.816734	.821535	.825644	.830357	.833526	.839957	.842424	.847628	
	670	.822668	.828418	.833090	.837036	.841666	.844743	.850982	.853372	.858411	
	680	.834485	.840074	.844511	.848487	.852926	.855906	.861940	.864250	.869115	
	690	.846284	.851701	.856093	.859843	.864132	.867009	.872828	.875053	.879734	
	700	.858061	.863296	.867535	.871150	.875280	.878048	.883639	.885774	.890262	
	710	.869815	.874855	.878931	.882403	.886364	.889016	.894365	.896405	.900688	
	720	.881543	.886375	.890277	.893596	.897378	.899906	.904998	.906937	.911001	
	730	.893242	.897851	.901556	.904722	.908312	.910708	.915526	.917357	.921190	
	740	.904908	.909278	.912792	.915771	.919155	.921410	.925934	.927650	.931235	
	750	.916537	.920646	.923943	.926733	.929895	.931997	.936205	.937797	.941115	
	760	.928120	.931946	.935007	.937590	.940511	.942448	.946312	.947770	.950801	
	770	.939649	.943163	.945954	.948321	.950977	.952733	.956223	.957534	.960251	
	780	.951109	.954275	.956788	.958893	.961254	.962810	.965885	.967035	.969405	
	790	.962477	.965249	.967434	.969254	.971283	.972612	.975220	.976187	.978170	
	800	.973715	.976024	.977825	.979312	.980954	.982020	.984087	.984845	.986381	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
825	810	.984736	.986471	.987798	.988875	.990042	.990786	.992195	.992700	.993700
	820	.995265	.996175	.996828	.997326	.997832	.998133	.998655	.998825	.999133
850	410	.496199	.503742	.509970	.515370	.521644	.525913	.534706	.538125	.545430
	420	.507961	.515500	.521722	.527114	.533377	.537638	.546409	.549818	.557100
	430	.519715	.527245	.533458	.538843	.545089	.549338	.558083	.561481	.568735
	440	.531461	.538979	.545178	.550547	.556778	.561014	.569727	.573112	.580335
	450	.543199	.550700	.556883	.562235	.568446	.572666	.581343	.584712	.591900
	460	.554929	.562409	.568572	.573935	.580091	.584293	.592929	.596281	.603429
	470	.566651	.574106	.580245	.585555	.591714	.595895	.604485	.607818	.614924
	480	.578364	.585790	.591903	.597133	.603314	.607473	.616012	.619324	.626382
	490	.590070	.597462	.603544	.608832	.614892	.619026	.627510	.630798	.637805
	500	.601767	.609122	.615170	.620335	.626448	.630553	.638976	.642240	.649192
	510	.613456	.620768	.626779	.631973	.637980	.642055	.650413	.653650	.660541
	520	.625137	.632402	.638371	.643525	.649489	.653531	.661818	.665026	.671854
	530	.636809	.644023	.649947	.655350	.660974	.664981	.673192	.676370	.683129
	540	.648472	.655630	.661505	.666574	.672435	.676404	.684534	.687679	.694365
	550	.660126	.667224	.673047	.678058	.683871	.687800	.695843	.698953	.705563
	560	.671771	.678803	.684570	.689540	.695282	.699168	.707119	.710192	.716720
	570	.683407	.690369	.696075	.700931	.706668	.710508	.718361	.721394	.727836
	580	.695033	.701920	.707561	.712419	.718026	.721818	.729568	.732559	.738910
590	.706649	.713456	.719028	.723825	.729358	.733098	.740738	.743686	.749941	
600	.718255	.724976	.730476	.735207	.740662	.744347	.751872	.754773	.760928	
610	.729850	.736481	.741902	.746564	.751936	.755564	.762967	.765820	.771868	
620	.741435	.747968	.753307	.757896	.763181	.766748	.774022	.776824	.782760	
630	.753008	.759439	.764691	.769202	.774394	.777897	.785036	.787784	.793603	
640	.764570	.770891	.776051	.780433	.785575	.789010	.796006	.798698	.804394	
650	.776119	.782325	.787386	.791729	.796721	.800085	.806931	.809563	.815130	
660	.787655	.793739	.798697	.802943	.807832	.811121	.817809	.820378	.825809	
670	.799177	.805132	.809980	.814135	.818904	.822114	.828636	.831140	.836429	
680	.810684	.816502	.821235	.825288	.829937	.833064	.839411	.841845	.846984	
690	.822176	.827849	.832460	.836405	.840926	.843965	.850128	.852490	.857471	
700	.833652	.839171	.843552	.847433	.851870	.854816	.860785	.863071	.867886	
710	.845109	.850465	.854810	.859519	.862764	.865613	.871377	.873581	.878222	
720	.856547	.861730	.865929	.869511	.873605	.876350	.881897	.884017	.888474	
730	.867964	.872962	.877007	.880453	.884387	.887022	.892341	.894370	.898632	
740	.879357	.884159	.888038	.891343	.895105	.897623	.902698	.904632	.908688	
750	.890724	.895315	.899019	.902165	.905750	.908144	.912960	.914792	.918630	
760	.902061	.906427	.909942	.912924	.916314	.918575	.923114	.924838	.928442	
770	.913364	.917487	.920798	.923632	.926784	.928902	.933145	.934753	.938107	
780	.924628	.928486	.931577	.934189	.937145	.939109	.943032	.944514	.947599	
790	.935843	.939412	.942263	.944664	.947375	.949170	.952745	.954091	.956885	
800	.947000	.950249	.952834	.955033	.957443	.959054	.962246	.963443	.965917	
810	.958080	.960970	.963256	.965156	.967303	.968707	.971473	.972504	.974622	
820	.969056	.971532	.973476	.975088	.976878	.978046	.980325	.981167	.982883	
830	.979873	.981853	.983386	.984543	.986021	.986908	.988613	.989233	.990478	
840	.990393	.991726	.992726	.993523	.994369	.994899	.995877	.996218	.996877	
850	.999738	.999876	.999940	.999973	.999988	.999994	.999999	.999999	1.000000	
875	410	.482219	.489654	.495795	.501122	.507314	.511529	.520215	.523594	.530817
	420	.493655	.501090	.507229	.512552	.518738	.522948	.531619	.534991	.542197
	430	.505082	.512514	.518648	.523955	.530142	.534344	.542996	.546359	.553543
	440	.516503	.523928	.530054	.535361	.541526	.545718	.554345	.557698	.564858
	450	.527915	.535330	.541444	.546743	.552888	.557068	.565668	.569008	.576139
	460	.539321	.546720	.552820	.558102	.564231	.568396	.576963	.580290	.587388
	470	.550719	.558100	.564182	.569445	.575553	.579702	.588231	.591542	.598605
	480	.562109	.569468	.575529	.580773	.586854	.590984	.599472	.602765	.609788
	490	.573492	.580824	.586861	.592082	.598134	.602244	.610685	.613959	.620939
	500	.584868	.592169	.598178	.603373	.609394	.613480	.621870	.625123	.632056

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
875	510	.596235	.603503	.609480	.614647	.620632	.624693	.633028	.636258	.643139
	520	.607595	.614824	.620768	.625903	.631849	.635883	.644157	.647363	.654189
	530	.618947	.626134	.632043	.637141	.643045	.647048	.655257	.658437	.665204
	540	.630292	.637431	.643296	.648353	.654219	.658190	.666329	.669480	.676185
	550	.641628	.648716	.654537	.659550	.665370	.669306	.677371	.680492	.687130
	560	.652956	.659989	.665752	.670742	.676499	.680398	.688383	.691472	.698039
	570	.664275	.671249	.676970	.681903	.687604	.691464	.699364	.702419	.708911
	580	.675586	.682496	.688152	.693045	.698686	.702504	.710315	.713333	.719746
	590	.686888	.693730	.699336	.704157	.709744	.713517	.721233	.724213	.730542
	600	.698182	.704950	.710493	.715257	.720777	.724503	.732118	.735058	.741299
	610	.709465	.716155	.721632	.726346	.731784	.735460	.742969	.745867	.752015
	620	.720740	.727347	.732752	.737403	.742766	.746389	.753786	.756638	.762689
	630	.732004	.738523	.743853	.748437	.753719	.757287	.764566	.767372	.773320
	640	.743259	.749684	.754934	.759447	.764645	.768154	.775309	.778066	.783906
	650	.754502	.760828	.765994	.770432	.775542	.778989	.786013	.788718	.794446
	660	.765735	.771956	.777033	.781332	.786407	.789789	.796677	.799327	.804937
	670	.776956	.783066	.788049	.792325	.797241	.800555	.807299	.809892	.815377
	680	.788164	.794157	.799041	.803229	.808042	.811283	.817876	.820409	.825764
	690	.799360	.805229	.810008	.814103	.818806	.821972	.828406	.830876	.836095
	700	.810543	.816280	.820949	.824944	.829534	.832620	.838886	.841290	.846366
	710	.821710	.827309	.831861	.835756	.840222	.843224	.849314	.851649	.856574
	720	.832863	.838315	.842743	.845529	.850867	.853780	.859686	.861947	.866714
	730	.843999	.849295	.853593	.857254	.861466	.864287	.869997	.872181	.876782
	740	.855116	.860248	.864407	.867957	.872016	.874738	.880242	.882346	.886772
	750	.866215	.871171	.875184	.878604	.882512	.885129	.890416	.892434	.896675
	760	.877291	.882062	.885918	.889202	.892948	.895455	.900512	.902439	.906485
	770	.888344	.892916	.896605	.899744	.903319	.905709	.910520	.912352	.916190
	780	.899370	.903729	.907241	.910223	.913616	.915880	.920431	.922160	.925779
	790	.910365	.914495	.917817	.920632	.923829	.925958	.930230	.931850	.935234
	800	.921324	.925208	.928323	.930958	.933944	.935929	.939901	.941403	.944535
	810	.932242	.935856	.938747	.941186	.943943	.945772	.949419	.950795	.953654
	820	.943108	.946427	.949072	.951297	.953803	.955460	.958753	.959990	.962553
	830	.953910	.956900	.959271	.961257	.963486	.964953	.967854	.968938	.971174
	840	.964627	.967242	.969304	.971021	.972935	.974188	.976648	.977560	.979430
	850	.975220	.977398	.979097	.980530	.982049	.983054	.985003	.985717	.987166
	860	.985610	.987246	.988498	.989513	.990613	.991315	.992643	.993119	.994062
	870	.995536	.996394	.997010	.997480	.997956	.998240	.998732	.998892	.999182
900	410	.469004	.476328	.482382	.487634	.493743	.497903	.506479	.509817	.516955
	420	.480130	.487459	.493515	.498757	.504874	.509031	.517598	.520931	.528057
	430	.491248	.498580	.504634	.509884	.515985	.520138	.528691	.532018	.539128
	440	.502360	.509690	.515740	.520984	.527077	.531223	.539759	.543078	.550169
	450	.513465	.520789	.526832	.532063	.538150	.542287	.550802	.554112	.561179
	460	.524563	.531878	.537910	.543137	.549204	.553330	.561819	.565118	.572160
	470	.535654	.542956	.548976	.554189	.560239	.564352	.572811	.576097	.583109
	480	.546739	.554023	.560027	.565225	.571255	.575353	.583778	.587049	.594028
	490	.557816	.565081	.571065	.576244	.582252	.586332	.594719	.597974	.604917
	500	.568886	.576127	.582090	.587248	.593229	.597290	.605635	.608872	.615775
	510	.579949	.587163	.593100	.598235	.604187	.608227	.616525	.619743	.626602
	520	.591005	.598187	.604097	.609206	.615125	.619142	.627388	.630586	.637398
	530	.602054	.609201	.615080	.620153	.626043	.630035	.638226	.641401	.648162
	540	.613096	.620204	.626048	.631097	.636942	.640906	.649037	.652187	.658895
	550	.624130	.631196	.637002	.642017	.647820	.651754	.659822	.662946	.669595
	560	.635157	.642176	.647942	.652919	.658677	.662580	.670579	.673675	.680263
	570	.646176	.653145	.658867	.663804	.669514	.673383	.681308	.684375	.690897
	580	.657188	.664102	.669777	.674671	.680330	.684162	.692009	.695044	.701498
	590	.668191	.675047	.680671	.685520	.691123	.694917	.702681	.705683	.712064
	600	.679187	.685980	.691550	.696350	.701895	.705647	.713324	.716291	.722594

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
900	610	.690174	.696900	.702412	.707151	.712644	.716353	.723937	.726867	.733089
	620	.701153	.707808	.713258	.717952	.723369	.727032	.734519	.737410	.743546
	630	.712123	.718702	.724087	.728723	.734070	.737685	.745069	.747919	.753965
	640	.723085	.729582	.734899	.739473	.744747	.748311	.755586	.758393	.764345
	650	.734037	.740449	.745692	.750201	.755398	.758908	.766070	.768831	.774684
	660	.744979	.751300	.756467	.760908	.766023	.769476	.776518	.779232	.784981
	670	.755911	.762137	.767222	.771591	.776620	.780014	.786930	.789594	.795234
	680	.766833	.772958	.777957	.782249	.787189	.790520	.797304	.799915	.805442
	690	.777744	.783762	.788571	.792883	.797727	.800992	.807638	.810195	.815602
	700	.788644	.794549	.799362	.803490	.808234	.811430	.817931	.820430	.825712
	710	.799532	.805317	.810030	.814069	.818708	.821832	.828180	.830618	.835770
	720	.810407	.816067	.820673	.824619	.829147	.832194	.838383	.840757	.845772
	730	.821268	.826795	.831290	.835137	.839549	.842516	.848536	.850844	.855715
	740	.832115	.837502	.841879	.845622	.849912	.852794	.858637	.860876	.865596
	750	.842947	.848186	.852438	.855071	.859232	.863025	.868682	.870847	.875409
	760	.853762	.858844	.862964	.866482	.870506	.873205	.878666	.880754	.885149
	770	.864559	.869474	.873455	.876850	.880730	.883330	.888584	.890591	.894810
	780	.875336	.880075	.883907	.887173	.890900	.893395	.898430	.900351	.904385
	790	.886091	.890642	.894317	.897444	.901009	.903393	.908197	.910026	.913864
	800	.896822	.901171	.904679	.907659	.911051	.913317	.917874	.919607	.923237
810	.907525	.911659	.914986	.917809	.921017	.923156	.927451	.929081	.932489	
820	.918196	.922098	.925232	.927836	.930896	.932899	.937912	.938431	.941602	
830	.928830	.932481	.935405	.937876	.940672	.942528	.947637	.947638	.950555	
840	.939419	.942795	.945491	.947752	.950325	.952022	.957101	.956673	.959313	
850	.949953	.953025	.955469	.957520	.959827	.961349	.966366	.965496	.967834	
860	.960415	.963147	.965308	.967113	.969133	.970459	.975302	.974046	.976047	
870	.970779	.973119	.974956	.976479	.978170	.979274	.983927	.982222	.983843	
880	.980993	.982864	.984312	.985500	.986801	.987639	.991925	.989835	.991010	
890	.990927	.992186	.993131	.993883	.994683	.995183	.998106	.996428	.997051	
900	.999752	.999883	.999943	.999972	.999989	.999994	.999999	.999999	1.000000	
925	460	.510589	.517815	.523778	.528945	.534948	.539032	.547438	.550705	.557685
	470	.521389	.528607	.534561	.539723	.545710	.549783	.558166	.561423	.568379
	480	.532183	.539389	.545332	.550479	.556453	.560515	.568870	.572116	.579045
	490	.542970	.550162	.556090	.561223	.567179	.571227	.579551	.582784	.589682
	500	.553751	.560924	.566835	.571952	.577887	.581919	.590208	.593426	.600290
	510	.564525	.571677	.577558	.582655	.588576	.592591	.600841	.604043	.610871
	520	.575292	.582420	.588288	.593364	.599248	.603243	.611450	.614634	.621422
	530	.586053	.593152	.598995	.604047	.609901	.613875	.622035	.625200	.631944
	540	.596808	.603875	.609689	.614714	.620536	.624487	.632596	.635740	.642437
	550	.607555	.614587	.620370	.625356	.631153	.635078	.643132	.646253	.652901
	560	.618296	.625289	.631037	.636022	.641750	.645648	.653643	.656740	.663334
	570	.629030	.635980	.641691	.646522	.652329	.656198	.664129	.667200	.673737
	580	.639757	.646661	.652331	.657226	.662888	.666725	.674589	.677633	.684110
	590	.650476	.657330	.662957	.667813	.673427	.677231	.685023	.688038	.694451
	600	.661189	.667989	.673570	.678383	.683947	.687715	.695431	.698415	.704760
	610	.671894	.678637	.684167	.688936	.694446	.698176	.705811	.708763	.715036
	620	.682591	.689272	.694750	.699471	.704924	.708615	.716164	.719082	.725280
	630	.693281	.699896	.705318	.709988	.715381	.719029	.726489	.729370	.735489
	640	.703962	.710508	.715870	.720437	.725816	.729419	.736784	.739627	.745664
	650	.714636	.721108	.726406	.730957	.736228	.739784	.747049	.749853	.755802
660	.725301	.731694	.736926	.741427	.746617	.750124	.757284	.760045	.765903	
670	.735957	.742268	.747428	.751856	.756981	.760436	.767486	.770204	.775967	
680	.746605	.752827	.757913	.762235	.767321	.770722	.777656	.780328	.785990	
690	.757242	.763373	.768380	.772682	.777636	.780978	.787791	.790415	.795973	
700	.767871	.773903	.778828	.783055	.787923	.791205	.797891	.800464	.805912	



TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY								
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999
925	710	.778488	.784418	.789255	.793407	.798182	.801401	.807953	.810474	.815807
	720	.789096	.794917	.799552	.803732	.808411	.811564	.817977	.820442	.825655
	730	.799692	.805398	.810047	.814032	.818613	.821693	.827959	.830367	.835454
	740	.810276	.815862	.820409	.824334	.828776	.831785	.837898	.840245	.845201
	750	.820847	.826306	.830746	.834547	.838907	.841840	.847792	.850075	.854893
	760	.831405	.836730	.841057	.844758	.849001	.851853	.857636	.859852	.864526
	770	.841949	.847132	.851340	.854937	.859056	.861823	.867428	.869574	.874097
	780	.852478	.857510	.861593	.865079	.869068	.871746	.877164	.879236	.883600
	790	.862989	.867863	.871813	.875182	.879035	.881617	.886839	.888834	.893030
	800	.873482	.878189	.881997	.885243	.888951	.891433	.896447	.898360	.902380
	810	.883956	.888483	.892143	.895258	.898811	.901188	.905982	.907809	.911643
	820	.894406	.898744	.902244	.905223	.908613	.910875	.915435	.917171	.920808
	830	.904832	.908966	.912297	.915124	.918340	.920486	.924797	.926435	.929863
	840	.915229	.919145	.922294	.924952	.927991	.930009	.934055	.935589	.938794
	850	.925593	.929273	.932225	.934722	.937550	.939431	.943192	.944615	.947580
	860	.935917	.939341	.942080	.944330	.947001	.948733	.952186	.953488	.956195
	870	.946193	.949336	.951841	.953943	.956321	.957890	.961007	.962178	.964603
	880	.956408	.959239	.961484	.963355	.965474	.966863	.969608	.970634	.972750
	890	.966543	.969019	.970971	.972595	.974407	.975593	.977920	.978784	.980553
	900	.976562	.978623	.980231	.981558	.983024	.983975	.985819	.986495	.987865
910	.986389	.987937	.989121	.990082	.991123	.991786	.993043	.993493	.994385	
920	.995777	.996589	.997171	.997515	.9978067	.998335	.998801	.998952	.999227	
950	460	.497338	.504473	.510364	.515471	.521406	.525445	.533764	.536999	.543911
	470	.507861	.514993	.520879	.525980	.531907	.535938	.544239	.547467	.554360
	480	.518379	.525504	.531382	.536475	.542390	.546413	.554693	.557911	.564782
	490	.528891	.536006	.541874	.546956	.552857	.556869	.565124	.568331	.575178
	500	.539396	.546498	.552353	.557423	.563307	.567307	.575533	.578728	.585547
	510	.549896	.556981	.562821	.567875	.573741	.577726	.585920	.589102	.595890
	520	.560389	.567456	.573277	.578315	.584158	.588127	.596285	.599452	.606206
	530	.570876	.577920	.583721	.588733	.594557	.598509	.606627	.609778	.616495
	540	.581358	.588376	.594153	.599169	.604940	.608872	.616947	.620079	.626756
	550	.591833	.598821	.604572	.609544	.615306	.619216	.627244	.630357	.636991
	560	.602301	.609258	.614980	.619925	.625654	.629541	.637518	.640611	.647198
	570	.612764	.619684	.625375	.630232	.635985	.639847	.647769	.650839	.657377
	580	.623219	.630101	.635758	.640543	.646298	.650133	.657997	.661043	.667528
	590	.633669	.640508	.646127	.650973	.656593	.660399	.668201	.671221	.677650
	600	.644112	.650905	.656484	.661330	.666870	.670645	.678380	.681374	.687744
	610	.654548	.661292	.666828	.671635	.677128	.680870	.688535	.691501	.697808
	620	.664977	.671668	.677159	.681834	.687368	.691075	.698665	.701600	.707841
	630	.675399	.682034	.687475	.692157	.697588	.701258	.708769	.711673	.717845
	640	.685814	.692388	.697778	.702423	.707783	.711420	.718848	.721718	.727816
	650	.696222	.702732	.708067	.712663	.717969	.721559	.728899	.731734	.737756
660	.706622	.713064	.718341	.722834	.728129	.731675	.738923	.741722	.747663	
670	.717014	.723384	.728599	.733038	.738267	.741768	.748919	.751679	.757535	
680	.727399	.733693	.738843	.743274	.748383	.751836	.758886	.761605	.767373	
690	.737775	.743989	.749070	.753440	.758477	.761879	.768822	.771499	.777175	
700	.748143	.754271	.759280	.763586	.768547	.771896	.778728	.781360	.786940	
710	.758502	.764541	.769474	.773712	.778593	.781887	.788601	.791187	.796665	
720	.768852	.774796	.779549	.783817	.788614	.791849	.798441	.800978	.806351	
730	.779192	.785037	.789806	.793839	.798603	.801782	.808246	.810732	.815994	
740	.789522	.795262	.799943	.803958	.808574	.811685	.818014	.820447	.825594	
750	.799842	.805472	.810059	.813933	.818512	.821555	.827744	.830121	.835147	
760	.810150	.815664	.820154	.824001	.828418	.831392	.837433	.839752	.844652	
770	.820447	.825839	.830226	.833932	.838293	.841192	.847079	.849337	.854105	
780	.830731	.835994	.840273	.843935	.848133	.850955	.856679	.858874	.863503	
790	.841002	.846130	.850295	.853855	.857936	.860676	.866231	.868358	.872843	
800	.851258	.856243	.860288	.863743	.867599	.870354	.875730	.877787	.882120	

TABLE I. - Continued. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMJLATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
950	810	.861499	.866333	.870251	.873535	.877420	.879985	.885173	.887156	.891329	
	820	.871723	.876397	.880181	.883407	.887094	.889564	.894554	.896459	.900465	
	830	.881928	.886433	.890075	.893177	.896717	.899087	.903868	.905691	.909519	
	840	.892113	.896437	.899929	.902839	.906284	.908547	.913107	.914843	.918484	
	850	.902275	.906407	.909738	.912557	.915788	.917938	.922262	.923907	.927350	
	860	.912411	.916337	.919496	.922175	.925220	.927249	.931324	.932870	.936102	
	870	.922517	.926222	.929196	.931714	.934570	.936470	.940276	.941717	.944724	
	880	.932588	.936053	.938828	.941172	.943824	.945585	.949102	.950430	.953194	
	890	.942617	.945820	.948378	.950532	.952962	.954571	.957775	.958981	.961483	
	900	.952594	.955508	.957826	.959771	.961957	.963400	.966260	.967331	.969546	
	910	.962503	.965094	.967143	.968854	.970768	.972025	.974502	.975424	.977321	
	920	.972320	.974539	.976279	.977723	.979326	.980371	.982411	.983165	.984700	
	930	.981995	.983768	.985141	.986256	.987499	.988293	.989819	.990373	.991486	
	940	.991405	.992598	.993493	.994205	.994964	.995438	.996312	.996617	.997207	
	950	.999765	.999889	.999946	.999973	.999989	.999995	.999999	.999999	1.000000	
	975	460	.484754	.491798	.497515	.502651	.508527	.512520	.520747	.523948	.530791
		470	.495015	.502059	.507875	.512917	.518778	.522766	.530981	.534176	.541004
		480	.505271	.512311	.518123	.523161	.529013	.532995	.541194	.544382	.551193
		490	.515520	.522555	.528360	.533331	.539233	.543207	.551387	.554566	.561357
		500	.525764	.532791	.538587	.543637	.549437	.553401	.561558	.564728	.571496
510		.536003	.543018	.548802	.553811	.559625	.563578	.571709	.574868	.581610	
520		.546235	.553236	.559005	.564331	.569798	.573738	.581839	.584986	.591699	
530		.556462	.563445	.569199	.574178	.579955	.583880	.591949	.595081	.601763	
540		.566683	.573646	.579380	.584342	.590097	.594005	.602037	.605154	.611802	
550		.576899	.583838	.589551	.594493	.600222	.604112	.612104	.615205	.621816	
	560	.587108	.594021	.599710	.604530	.610331	.614202	.622150	.625233	.631804	
	570	.597317	.604195	.609858	.614753	.620425	.624274	.632175	.635239	.641766	
	580	.607510	.614360	.619994	.624862	.630501	.634327	.642178	.645221	.651703	
	590	.617702	.624516	.630118	.634958	.640562	.644363	.652159	.655180	.661613	
	600	.627888	.634663	.640231	.645040	.650606	.654380	.662118	.665116	.671497	
	610	.638067	.644800	.650332	.655107	.660632	.664378	.672055	.675027	.681353	
	620	.648241	.654928	.660420	.665160	.670642	.674357	.681969	.684915	.691183	
	630	.658408	.665047	.670496	.675198	.680634	.684317	.691859	.694778	.700984	
	640	.668568	.675155	.680560	.685221	.690608	.694257	.701726	.704615	.710757	
	650	.678722	.685254	.690610	.695228	.700564	.704176	.711569	.714427	.720501	
	660	.688870	.695342	.700647	.705220	.710501	.714076	.721387	.724212	.730215	
	670	.699010	.705419	.710671	.715195	.720423	.723954	.731180	.733971	.739899	
	680	.709143	.715486	.720661	.725155	.730318	.733810	.740947	.743702	.749552	
	690	.719269	.725542	.730677	.735098	.740197	.743644	.750687	.753405	.759173	
	700	.729388	.735586	.740658	.745022	.750055	.753456	.760400	.763079	.768761	
	710	.739498	.745619	.750624	.754929	.759892	.763243	.770084	.772722	.778315	
	720	.749601	.755639	.760574	.764817	.769706	.773007	.779739	.782334	.787834	
	730	.759695	.765646	.770508	.774685	.779497	.782744	.789364	.791914	.797316	
	740	.769781	.775641	.780426	.784535	.789265	.792456	.798957	.801460	.806760	
	750	.779857	.785622	.790325	.794353	.799008	.802140	.808517	.810971	.816165	
	760	.789925	.795588	.800206	.804158	.808724	.811795	.818043	.820446	.825528	
	770	.799982	.805539	.810068	.813951	.818414	.821419	.827532	.829882	.834848	
	780	.810029	.815474	.819909	.823710	.828074	.831012	.836984	.839277	.844122	
	790	.820064	.825393	.829729	.833442	.837704	.840572	.846395	.848630	.853348	
	800	.830089	.835294	.839526	.843143	.847302	.850095	.855763	.857937	.862523	
	810	.840100	.845175	.849298	.852825	.856866	.859581	.865086	.867195	.871643	
	820	.850098	.855037	.859045	.862470	.866392	.869026	.874360	.876402	.880704	
	830	.860082	.864876	.868763	.872032	.875879	.878427	.883582	.885553	.889702	
	840	.870050	.874691	.878451	.881658	.885323	.887780	.892746	.894643	.898632	
	850	.880001	.884481	.888105	.891194	.894720	.897081	.901848	.903667	.907488	
	860	.889933	.894242	.897724	.900535	.903405	.906325	.910881	.912618	.916261	
	870	.899844	.903971	.907299	.910129	.913352	.915505	.919838	.921487	.924942	
	880	.909732	.913664	.916830	.919513	.922574	.924613	.928709	.930265	.933521	
	890	.919592	.923315	.926308	.929843	.931722	.933639	.937482	.938939	.941982	
	900	.929422	.932920	.935725	.939397	.940783	.942569	.946142	.947492	.950307	

TABLE I. - Concluded. COMPONENT RELIABILITY FOR BINOMIAL REDUNDANCY

N	R	CUMULATIVE PROBABILITY									
		.80	.90	.95	.975	.99	.995	.999	.9995	.9999	
975	910	.939214	.942467	.945051	.947253	.949743	.951387	.954666	.955902	.958471	
	920	.948960	.951946	.954325	.956325	.958578	.960058	.963027	.964138	.966440	
	930	.958650	.961338	.963469	.965255	.967257	.968576	.971181	.972155	.974162	
	940	.968263	.970613	.972455	.974008	.975727	.976853	.979061	.979881	.981559	
	950	.977766	.979722	.981249	.982503	.983899	.984801	.986550	.987192	.988492	
	960	.987088	.988556	.989680	.990592	.991580	.992209	.993401	.993828	.994674	
	970	.995994	.996764	.997317	.997733	.998166	.998421	.998862	.999006	.999266	
	1000	460	.472790	.479741	.485484	.490468	.496263	.500209	.508343	.511509	.518279
		470	.482801	.489756	.495500	.500483	.506276	.510219	.518345	.521507	.528267
		480	.492807	.499762	.505505	.510488	.516274	.520213	.528328	.531485	.538231
490		.502807	.509760	.515500	.520475	.526257	.530191	.538292	.541442	.548172	
500		.512802	.519750	.525484	.530454	.536226	.540152	.548236	.551378	.558090	
510		.522791	.529733	.535458	.540419	.546180	.550097	.558160	.561294	.567985	
520		.532776	.539707	.545422	.550372	.556119	.560026	.568065	.571188	.577856	
530		.542755	.549672	.555375	.560313	.566044	.569939	.577951	.581062	.587703	
540		.552728	.559630	.565318	.570242	.576954	.579836	.587817	.590916	.597527	
550		.562696	.569580	.575250	.580157	.586984	.589716	.597663	.600748	.607328	
560	.572659	.579521	.585172	.590061	.596729	.599579	.607490	.610559	.617105		
570	.582617	.589454	.595083	.599951	.605595	.609426	.617296	.620349	.626858		
580	.592568	.599379	.604983	.609823	.615445	.619257	.627083	.630118	.636587		
590	.602515	.609295	.614873	.619694	.625280	.629070	.636850	.640092	.646592		
600	.612456	.619203	.624752	.629547	.635099	.638866	.646596	.649591	.655972		
610	.622391	.629102	.634520	.639385	.644903	.648645	.656321	.659295	.665627		
620	.632320	.638993	.644476	.649211	.654691	.658407	.666026	.668976	.675257		
630	.642244	.648875	.654321	.659023	.664464	.668151	.675709	.678635	.684862		
640	.652161	.658747	.664155	.668822	.674219	.677877	.685371	.688271	.694441		
650	.662073	.668611	.673977	.678606	.683959	.687585	.695011	.697884	.703993		
660	.671979	.678465	.683787	.688375	.693681	.697273	.704628	.707472	.713519		
670	.681878	.688310	.693585	.698132	.703386	.706943	.714223	.717037	.723017		
680	.691771	.698145	.703370	.707873	.713074	.716594	.723794	.726576	.732487		
690	.701657	.707970	.713143	.717599	.722744	.726224	.733341	.736090	.741929		
700	.711537	.717785	.722902	.727309	.732395	.735834	.742864	.745578	.751341		
710	.721410	.727589	.732548	.737303	.742027	.745423	.752362	.755040	.760723		
720	.731275	.737383	.742380	.746930	.751639	.754990	.761833	.764473	.770073		
730	.741134	.747165	.752098	.756341	.761231	.764535	.771278	.773878	.779392		
740	.750984	.756936	.761801	.765994	.770803	.774057	.780695	.783254	.788677		
750	.760827	.766695	.771489	.775608	.780353	.783555	.790084	.792599	.797928		
760	.770662	.776441	.781150	.785214	.789880	.793028	.799442	.801912	.807143		
770	.780488	.786175	.790815	.794800	.799383	.802475	.808870	.811193	.816320		
780	.790306	.795895	.800453	.804355	.808863	.811894	.818065	.820438	.825459		
790	.800114	.805600	.810073	.813903	.818316	.821286	.827326	.829648	.834557		
800	.809912	.815291	.819573	.823429	.827742	.830647	.836551	.838819	.843611		
810	.819700	.824966	.829253	.832925	.837140	.839977	.845738	.847950	.852621		
820	.829476	.834625	.838812	.842395	.846508	.849273	.854886	.857039	.861582		
830	.839242	.844265	.848348	.851840	.855843	.858534	.863990	.866082	.870492		
840	.848994	.853887	.857859	.861255	.865145	.867757	.873050	.875076	.879348		
850	.858733	.863488	.867345	.870539	.874409	.876938	.882060	.884019	.888145		
860	.868458	.873067	.876802	.879988	.883633	.886076	.891017	.892905	.896878		
870	.878167	.882622	.886228	.889302	.892813	.895165	.899916	.901730	.905542		
880	.887858	.892150	.895520	.898874	.901945	.904201	.908752	.910487	.914130		
890	.897531	.901649	.904974	.907802	.911025	.913179	.917518	.919170	.922634		
900	.907181	.911115	.914287	.916930	.920045	.922091	.926205	.927770	.931044		
1000	910	.916807	.920544	.923551	.926101	.928998	.930929	.934804	.936274	.939348	
	920	.926405	.929931	.932761	.935156	.937873	.939681	.943300	.944670	.947529	
	930	.935970	.939266	.941906	.944135	.946657	.948332	.951676	.952939	.955567	
	940	.945495	.948542	.950974	.953022	.955333	.956863	.959908	.961054	.963432	
	950	.954971	.957742	.959946	.961795	.963873	.965245	.967963	.968981	.971086	
	960	.964383	.966846	.968793	.970420	.972239	.973434	.975787	.976664	.978466	
	970	.973707	.975815	.977470	.978842	.980365	.981358	.983297	.984012	.985471	
	980	.982896	.984582	.985886	.986955	.988126	.988881	.990330	.990857	.991915	
	990	.991835	.992969	.993819	.994495	.995216	.995666	.996497	.996787	.997347	
	1000	.999777	.999895	.999949	.999975	.999990	.999995	.999999	.999999	1.000000	

FIRST CLASS MAIL



POSTAGE AND FEES PAID  
NATIONAL AERONAUTICS &  
SPACE ADMINISTRATION

U.S. MAIL PERMIT NO. 1000 WASHINGTON, D.C. 20546  
POSTAGE WILL BE PAID BY ADDRESSEE  
FIRST CLASS MAIL PERMIT NO. 1000 WASHINGTON, D.C. 20546

POSTMASTER: If Undeliverable (Section 15  
Postal Manual) Do Not Return

*"The aeronautical and space activities of the United States shall be conducted so as to contribute . . . to the expansion of human knowledge of phenomena in the atmosphere and space. The Administration shall provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof."*

— NATIONAL AERONAUTICS AND SPACE ACT OF 1958

## NASA SCIENTIFIC AND TECHNICAL PUBLICATIONS

**TECHNICAL REPORTS:** Scientific and technical information considered important, complete, and a lasting contribution to existing knowledge.

**TECHNICAL NOTES:** Information less broad in scope but nevertheless of importance as a contribution to existing knowledge.

**TECHNICAL MEMORANDUMS:** Information receiving limited distribution because of preliminary data, security classification, or other reasons.

**CONTRACTOR REPORTS:** Scientific and technical information generated under a NASA contract or grant and considered an important contribution to existing knowledge.

**TECHNICAL TRANSLATIONS:** Information published in a foreign language considered to merit NASA distribution in English.

**SPECIAL PUBLICATIONS:** Information derived from or of value to NASA activities. Publications include conference proceedings, monographs, data compilations, handbooks, sourcebooks, and special bibliographies.

**TECHNOLOGY UTILIZATION PUBLICATIONS:** Information on technology used by NASA that may be of particular interest in commercial and other non-aerospace applications. Publications include Tech Briefs, Technology Utilization Reports and Technology Surveys.

*Details on the availability of these publications may be obtained from:*

**SCIENTIFIC AND TECHNICAL INFORMATION DIVISION  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
Washington, D.C. 20546**