

NASA TECH BRIEF



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Microelectronic Device Data Handbook

This two-volume handbook compiles information from many reports of research, development, and application efforts in the field of microelectronics. Addressed to readers with little or no experience in the field, this manual requires a minimum of advanced theory and mathematics for understanding.

The first volume discusses a variety of subjects related to integrated circuits. These include: physical description, cost, and general development trends; basic production processes and integrated circuit design; packaging, logic systems, redundancy, maintainability, and other criteria important in system design; testing, quality assurance procedures, specifications, and procurement standards; as well as reliability and physics of failure.

The second volume contains an index of manufacturers, a catalog of microelectronic devices, and a collection of schematic drawings of available circuits.

The report furnishes a quick reference document for designers, engineers, and technicians working with microelectronic devices. Managers, planners, and potential users will find this report a very readable

introduction to the general technology, terminology, and uses of microelectronic devices.

Notes:

1. This handbook provides general guidance to the technology of integrated circuits, and does not intend to supply solutions to specific design problems. However, many footnotes guide the reader to the original source for additional information.
2. The following documentation may be obtained from:

Clearinghouse for Federal Scientific
and Technical Information
Springfield, Virginia 22151
Single document price \$3.00
(or microfiche \$0.65)

Reference: NASA CR-1110 and CR-1111 (N68-29525 and N68-29526), Microelectric Device Data Handbook (Volumes I and II).

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