N 69 30923

NASA CR 103217

ARAC

INDUSTRIAL APPLICATIONS SERVICE

KWIC INDEX

FOR ALL ANNOUNCEMENTS

1967

CASE FILE COPY

SPECIAL REPORT

NASA CONTRACT NSR 15-003-076

AEROSPACE RESEARCH APPLICATIONS CENTER

INDIANA UNIVERSITY

May 15, 1969

KWIC INDEX OF INDUSTRIAL APPLICATIONS REPORTS

Published by

Aerospace Research Applications Center (ARAC)
Indiana University Foundation
Indiana Memorial Union Building
Bloomington, Indiana

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May 1, 1969

The attached index contains all reports announced by ARAC's Industrial Applications Service from January, 1967 through December, 1967.

This represents a total of 414 reports.

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INTRODUCTION

The Aerospace Research Applications Center (ARAC) at Indiana University was established in 1962 as a cooperative effort between the National Aeronautics and Space Administration (NASA), the University, and industry. The purpose of the Center was to develop new and improved concepts and techniques to assist and accelerate the transfer of technology from the government sector into industrial applications.

Modern industrial needs require applications of the latest research findings across a broad spectrum of knowledge: scientific, technical, managerial and economic. Research application is the basic task of the Aerospace Research Applications Center.

ARAC was the first NASA-sponsored, university computerized information Center in the United States. Current operations make available to private industry the bulk of unclassified, government-sponsored research in America.

Over 500,000 technical reports form the Center's information base. Each month, thousands of additional reports pour into Center offices from NASA, the Department of Defense, the Department of Commerce, the Atomic Energy Commission, and other sources.

Due to the broad backgrounds of ARAC engineers and scientists, they are well-qualified to understand and interpret the problems of industrial firms. From the beginning of a membership, these information experts maintain close, personal contact with company staff members. They assist in pinpointing and defining interest areas, design search profiles to assist the location of pertinent reports, and analyze them to evaluate relevance to the stated problem. It is the high professional quality of the analyst-

the individual ARAC scientist - which gives the Center its capacity to serve modern industrial needs.

INDUSTRIAL APPLICATIONS SERVICE

One of the transfer systems developed by ARAC is the Industrial Applications Service (IAS). The primary purpose of IAS is to identify and disseminate reports which have a high probability of industrial applicability. This objective is attained through the generation of new ideas resulting from these reports as well as exposing technical people to a broad cross-section of technology where industrial application has been identified by ARAC.

To accomplish this, a weekly mailing of abstracts is sent to a large group of potential users. As a result, the technical content of subject areas covered includes a broad spectrum of topics with the major criterion being their relevancy to industrial problems or situations. A sample of the types of reports which have been sent out include a Handbook of Soviet Steels and Alloys, Research and Development of New Laser Materials, Bibliography on Adhesives, Seals and Gaskets, Non-Destructive Testing Survey and Soldering of Electrical Connections.

The primary sources of information utilized by ARAC are the semi-monthly publications of STAR (Scientific and Technical Aerospace Reports), IAA (International Aerospace Abstracts) and USGRDR (United States Government Research and Development Reports). To supplement these sources and glean the best reports available in terms of industrial application potential, a number of other sources such as the Electrical and Plastics Sections of Engineering Index and NSA (Nuclear Science Abstracts) are

also reviewed. In addition, NASA's Technology Utilization Division has a program to identify, appraise, and disseminate space technology which promises commercial application. NASA's report series consists of: Special Publications (SP), Technical Reports (TR), Technical Memorandums (TM), Technical Translations (TT), and Contractor Reports (CR). It is these information sources which form the inputs to the IAS.

Over 1750 Industrial Applications Reports have been sent out since the IAS was instituted five years ago. The purpose of the enclosed index - KWIC INDEX OF INDUSTRIAL APPLICATIONS REPORTS - is to provide a systematic comprehensive listing of the reports announced via ARAC's Industrial Applications Service.

METHOD OF INDEXING

In order to provide an efficient system for identifying these reports, the KWIC (Keyword-in-context) method of indexing has been utilized. The underlying principle of this type of index is that words instead of concepts can be used for indexing. Keywords - i.e. catchwords or essential words - can be extracted from the title. Thus, the context about a keyword helps to define or explain its use which leads the user to the pertinent report or other types of information he desires.

Information, to be readily available and useful, must be organized in a meaningful manner. One method would be to assign each piece of information a unique identifying number and arrange the pieces in order by this number. So long as the information may be retrieved in an efficient manner using the identification number alone, this is sufficient. However, if requirements dictate that the information must be retrieved on the basis of its content, then this system alone does not fulfill the requirement.

A second method of ordering information is by key word indexing - that is selecting words that characterize the content of the information and arranging these according to some system - usually alphabetic.

KWIC as applied to the Industrial Applications Reports utilizes both methods. Each IAR that is announced is assigned an identifying number (Ixxxx). This number, the title of the report, and any report number(s) assigned by the originating source (e.g. AD-, N-, TM-X, etc.) are sorted in the sequence of the identification number followed by all pertinent information for that report. This is called the BIBLIOGRAPHIC INDEX.

To facilitate a manual search of the file for a particular subject area or topic of interest, each title is machine-indexed (by the computer) under each significant word of the title. These index words are then sorted and listed alphabetically to produce the listing called the KWIC INDEX showing the keyword followed by the title of the report and its accompanying identification number.

HOW TO USE THE INDEX

This section will provide users of the index with information regarding the use of KWIC in general and the two spearate listing in particular.

As mentioned above, the KWIC indexing method is based on keywords contained in the title of the report. Since the title is generally representative of the content of the report, this provides a rapid and convenient method of indexing. Where the title is misleading or perhaps incomplete, additional keyword descriptors may be used in terms of a secondary title which will augment the primary title to ensure its identification.

It is essential that the user should be aware of the special characteristics of this type of index. Also an appreciation of the primary differences between KWIC and the more conventional subject-heading indexes will greatly assist the user in his search for information. For these reasons, major consideration should be given to the following points:

(1) the user should realize that he will need to look for synonyms of words that most precisely describe the subject;

(2) the user should realize that he may have to search from the specific to the general when using KWIC;

(3) user should be aware of terms used in relationship to the subject, even though these terms are not in a hierarchial relationship.

The primary methods or techniques for using the indices are either to scan the report titles as presented in the BIBLIOGRAPHIC LISTING or, the more efficient mode of searching, by noting selected terms (noting above considerations) which sufficiently describe the subject and locating these in the KWIC INDEX. Whichever method is used will dictate whether one or both of the listings will have to be used to obtain the necessary report number for ordering the document.

By merely scanning the titles of the reports as listed in the BIBLIOGRAPHIC LISTING, the user is able to obtain the necessary information from this index to order the report. However, when the user is searching for selected key terms from the KWIC INDEX, it will be necessary to obtain the identification number (e.g. I1123) and cross-reference this number on the BIBLIOGRAPHIC LISTING for the government order number information.

ORDERING INFORMANTION

Full copies of all reports can be obtained by noting the government report number(s) and report title as indicated in the illustration below:

IDENTIFICATION NUMBER	REPORT TITLE
I0429	THERMOELECTRIC MATERIALS AND FABRICATION

General questions concerning either the index or the service available from ARAC may be directed to:

Manager of Technical Operations
Aerospace Research Applications Center
Indiana University Foundation
Indiana Memorial Union
Bloomington, Indiana 47401

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