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Reviews

WADEX

VOLUME 15

1962

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APPLIED MECHANICS REVIEWS

WADEX

WORD & AUTHOR INDEX

VOLUME 15

1962

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PREFACE

WADEX is an experimental information retrieval project of *Applied Mechanics Reviews*. For the year covered by WADEX, regular subscribers to the REVIEWS have received a conventional subject and author index. The present publication employs new computer programming techniques for the preparation of an index which is believed to possess several advantages over the conventional as well as the other computer made indexes.

Much intellectual and clerical work is needed in the preparation of a conventional subject index such as the one published yearly by AMR. Use of the computer has, for most of the indexes, already eliminated much of the clerical work. Utilization of the best capabilities of the computer makes it possible to devise a different kind of index and in addition, eliminate most of the intellectual work, required for a conventional subject index.

History of WADEX

At least 30 different organizations in this country have produced machine-made indexes of different types during the past five years. The development of these indexes has been stimulated by an excellent idea conceived and implemented by H. P. Luhn. He devised a computer-made permuted index which he named KWIC (Key Words in Context). In this index the keyword in each title appears in context (somewhere in the middle of the column) in a vertically aligned position with an extra space preceding the key word for easy identification. The advantage of having the key word appear in context is that the words preceding and following the key word can be regarded as a "subheading"; also the index is quite compact. On the other hand, with this arrangement there are two major disadvantages. The titles in general must be arbitrarily shortened in order to occupy only the one line assigned to the title of the publication. This is done by chopping them off at the beginning or the end, or at both places. Also the first word of the title, in the various entries, may appear anywhere in the line, and in many cases will follow rather than precede the keyword.

Since the printing and publication of the first KWIC Index, several modified formats have appeared (see for example CA's CHEMICAL TITLES, BA's BASIC, OTS's KEYWORDS INDEX, NASA's SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS and AIAA's INTERNATIONAL AEROSPACE ABSTRACTS. The latter two indexes are organized so that the keywords (or subject headings) are printed out of context (sometimes referred to as KWOC). The present index, which is a modified form of the previous Key Word Out of Context indexes, has been given the name WADEX where the letters stand for Word & Authors inDEX. This index incorporates many excellent features of previously published machine-made indexes and wherever it differs from others, the alterations have been made with specific objectives in mind. No changes in the existing format have been made for the sake of change itself.

The late Dr. Theodore von Karman, Honorary Editor of *Applied Mechanics Reviews*, was quite enthusiastic about machine-made indexes. During a detailed conference in the summer of 1962, he expressed the opinion that by using descriptors contained in the bibliographical headings of the publication much of the intellectual labor and ambiguity of subject indexing could be avoided. He thought that the advantages of having the keyword in context were more than counteracted by the disadvantages of having the titles chopped off and by not having the title starting in identical positions, even if not chopped off at the beginning. He felt that a machine-made index should list the complete titles from the beginning.

Following the recommendation of Dr. von Karman and with his concurrence, AMR has adopted in WADEX some features of the KEYWORDS INDEX published by OTS, using the descriptors "out of context". This way, the bibliographical heading starts in identical position and the title is not chopped off either at the beginning or at the end.

By combining the author and word indexes and using the author name(s) as one of the descriptors, the user of the index is relieved of the necessity of learning how to use both a subject and an author's index. Besides, in the mind of the literature searcher, the subject words and author names are not necessarily separated.

With regard to bibliographical references in the machine-made indexes, there are two practices. One provides the bibliographical references so that the reader can find the paper without the abstract or review magazine proper by having coded periodical title, volume, issue number, etc. and the other practice is to give only the reference to the publication abstract or review magazine. The latter practice is followed in the METEOROLOGICAL & GEOASTROPHYSICAL TITLES published by AMS and has been adopted for WADEX.

Since WADEX, unlike most machine-made indexes, is an annual publication, it is most suitable to retrospective search, whereas the monthly indexes are more suitable for current awareness information.

Description of WADEX Preparation

A 1401 IBM computer was used to compile a list of all words which appear in titles in the entire Vol. 15 of AMR (7400 items), and to count the frequency of occurrence of these words. From this primary frequency-count list, a secondary list of "forbidden words" was prepared.

All trivial words such as prepositions, conjunctions, articles (OF, AND, THE, IT, etc.), most of the non-technical words and technical words which appeared more than about 100 times (FLOW occurred 650 times) are on this prepared list. Some trivial words which appeared with a very low frequency are not on the list of forbidden words. They are estimated to amount to about 1 per cent of all descriptors. It is not economically feasible to "forbid" these trivial words.

The list was used to weed out many descriptors. Thus, in the preparation of WADEX, the selection of the descriptors does not involve intellectual effort. As a matter of fact, descriptors are not selected, but rather words which are not to be used as descriptors are discarded and all of the remaining words are considered to be descriptors.

Further weeding was performed to eliminate multiple entries due to the same word appearing two or more times in the same title with exactly the same spelling. Each title appears in the WADEX on the average about 6 times, including the times it is listed under authors' names.

Description of WADEX and How to Use It

Each WADEX entry is composed of three parts, namely: 1) Descriptor, 2) Reference numbers, and 3) Bibliographical entry. Examples of these three parts are given in their properly indented positions and then in a combined form as a complete listing.

The DESCRIPTOR is a word or an author's name. If it is an author's name, then the author's last name is followed by his initial or initials. (In case of long descriptors, no more than 20 characters are printed and the last letter of the descriptor is retained.) Examples for descriptors:

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ACTIVATION
DISTRIBUTED-MASS
SLATER,J.A.
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The AMR REFERENCE NUMBER contains the year, month, and item number. Example:

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64-03-2431
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BIBLIOGRAPHICAL ENTRY contains the author(s) name and the full title of the publication. Each title, it will be noted, is completely listed and appears without abbreviation, but to conserve space and to simplify the programming required for machine production of the WADEX, words are broken at the end of a line without regard to syllabication. Thus one may see the word ANALOGY is broken after the AN with ALOGY appearing on the next line. Occasionally the line which begins with a broken word appears at the top of the next column or even on the next page. Example for the bibliographical entry for above paper is as follows:

```
SLATER,J.A., AND LANGLEY,B.K., ACTIVATION CONCEPTS IN THE A
NALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, AN
ALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.
```

Examples of COMPLETE ENTRIES listed under three different descriptors for the same publication are:

```
ACTIVATION                                          64-03-2431
   SLATER,J.A., AND LANGLEY,B.K., ACTIVATION CONCEPTS IN THE A
   NALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, AN
   ALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.

DISTRIBUTED-MASS                                    64-03-2431
   SLATER,J.A., AND LANGLEY,B.K., ACTIVATION CONCEPTS IN THE A
   NALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, AN
   ALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.

SLATER,J.A.                                         64-03-2431
   SLATER,J.A., AND LANGLEY,B.K., ACTIVATION CONCEPTS IN THE A
   NALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, AN
   ALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.
```

For book reviews, the word BOOK precedes the reference numbers and for the monthly feature articles the item number appears as a four digit number starting with 99 followed by the month indicator; thus, the February feature article would have the number 9902.

If a user is looking for a specific paper and can recall the author(s) name(s), he can locate the paper under that (those) name(s). Likewise, if he can recall any non-trivial word in the title he can locate the paper under that word (unless it happens to be one of the words which were forbidden because they appear too many times.) If, on the other hand, the user is seeking references pertaining to a particular subject, he will find pertinent papers listed under words which are descriptive of the subject.

In the case of words appearing frequently, such as ELASTICITY, the first word in the bibliographical entry, namely the first author's name, can be looked upon as a first "subheading". If more than one paper written by the same author appears under the same descriptor (word), then the review number is used for a second subsequencing.

If the descriptor is an author's name, then this name appears twice in the entry (just as if the descriptor were a word), once as a descriptor and once in the bibliographical heading. Although this may seem repetitious, it could be avoided only by developing a much more complicated machine program. Also the repetition indicates to the reader whether the author did the work alone or with co-author(s).

Since the WADEX has the author(s) name(s) and complete titles, it is quite useable for browsing purposes, although considerably longer than the regular AMR subject and author index (some 600 pages as compared with 40 + 20 pages).

Authors' names have been spelled as in the primary journals, and no attempts were made to standardize spellings. In cases of uncertainty concerning identity of an author, the reader can guess as well as the editors (for example, DOE, J. B., and DOE, B.,).

AMR uses the NATIONAL FEDERATION OF SCIENCE ABSTRACTING AND INDEXING SERVICE transliteration system for Russian symbols when the transliteration is made in the AMR editorial office. Quite a few Russian articles have been taken, however, from magazines where the articles already appear in translation, hence, different transliterations were employed. Efforts were made, however, to change the first letter of the author's surname if otherwise his entries would be entirely separated (such as in the case of Yakolev, Jakolev, or Iakolev).

Acknowledgment

The editors of *Applied Mechanics Reviews* are indebted to the Air Force Office of Scientific Research and Office of Naval Research for the special grant for editorial expenses of this first WADEX, and the computational facilities and professional assistance so freely and cooperatively made available by the University of Texas staff. The editors wish to acknowledge the continued support from the National Science Foundation which makes possible much of the activities of *Applied Mechanics Reviews*.

WADEX: List of Forbidden Words

A
ABOUT
ABOVE
ACCORDING
ACCOUNT
ACROSS
ACTING
ACTION
ADDITION
ADJACENT
ADVANCED
ADVANCES
AFFECTED
AFTER
AGAINST
AID
AIR
ALONG
ALTERNATING
ALTITUDE
AN
ANALYSES
ANALYSIS
ANALYZING
AND
ANY
APPLICABILITY
APPLICATION
APPLICATIONS
APPLIED
APPROACH
APPROXIMATE
APPROXIMATION
APPROXIMATIONS
ARBITRARY
ARE
ARISING
AROUND
ARTIFICIAL
AS
ASSOCIATED
AT
AVERAGE
AXIS
BACK
BASIC
BASIS
BEHAVIOR
BEHAVIOUR
BEHIND
BEING
BETWEEN
BEYOND
BODIES
BODY
BOTTOM
BY
CALCULATED
CALCULATING
CALCULATION
CALCULATIONS
CAPABILITIES
CAPACITY
CAUSED
CENT
CENTER
CENTRAL
CENTRALLY
CERTAIN
CHANGE
CHANGES
CHANGING
CHARTS
CHOICE
CIRCULAR
CLASS
CLASSICAL
CLASSIFICATION
CLOSE
CLOSED
COEFFICIENT
COEFFICIENTS
COMBINATION
COMBINATIONS
COMBINED
COMPARATIVE
COMPARISON
COMPARISONS
COMPENSATION
COMPLETE
COMPONENT
COMPONENTS
COMPOSED
COMPOSITE
COMPUTATION
COMPUTING
CONCENTRATED
CONCENTRATION
CONCENTRATIONS
CONCEPT
CONCEPTS
CONCERNING
CONDITION
CONDITIONS
CONFERENCE
CONFIGURATION
CONFIGURATIONS
CONNECTION
CONSIDERATION
CONSIDERATIONS
CONSIDERING
CONSISTING
CONSTANT
CONTAINING
CONTINUOUS
CONTINUOUSLY
CONTRIBUTION
CORRECTION
CUMULATIVE
CURVED
DATA
DEEP
DEFINITION
DEGREE
DEGREES
DELAY
DEPENDENCE
DEPTH
DERIVATION
DERIVATIVES
DESIGN
DESIGNING
DETERMINATION
DETERMINED
DETERMINING
DEVELOPMENT
DEVELOPMENTS
DEVICE
DEVICES
DIAGRAMS
DIAMETER
DISCONTINUITY
DISCONTINUOUS
DISCUSSION
DISTANCE
DISTANCES
DISTRIBUTION
DISTRIBUTIONS
DOUBLE
DOUBLY
DRIVEN
DRIVING
DUE
DURATION
DURING
EFFECT
EFFECTIVE
EFFECTIVENESS
EFFECTS
EFFICIENCY
ELEVATED
EMPIRICAL
END
ENDS
ENGINEERING
ENGINEERS
EQUAL
EQUATION
EQUATIONS
ESTIMATES
ESTIMATING
ESTIMATION
EVALUATING
EVALUATION
EXACT
EXAMINATION
EXAMPLE
EXERCISED
EXERTED
EXPANSION
EXPANSIONS
EXPERIMENTAL
EXTENSION
EXTENSIONS
EXTERNAL
EXTERNALLY
FACTOR
FACTORS
FEATURES
FIELD
FIELDS
FINAL
FINE
FIRST
FIXED
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FLOW
FLOWING
FLOWS
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FLUIDS
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GENERALIZATION
GENERALIZED
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PRESENTATION
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