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*Reviews*

# WADEX

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**APPLIED MECHANICS REVIEWS**

**WADEX**

**WORD & AUTHOR INDEX**

**VOLUME 15**

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# P R E F A C E

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 descriptor, no more than 20 characters are printed and the last letter of the descriptor is retained.) Examples for descriptors:

ACTIVATION

DISTRIBUTED-MASS

SLATER, J. A.

The AMR REFERENCE NUMBER contains the year, month, and item number.  
Example:

64-03-2431

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 ANALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, ANALOGY 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 ANALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, ANALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.

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

SLATER, J. A. 64-03-2431  
SLATER, J. A., AND LANGLEY, B. K., ACTIVATION CONCEPTS IN THE ANALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, ANALOGY 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	CONFIGURATIONS	FUNDAMENTALS	ON	SIZE
ABOUT	CONNECTION	FURTHER	ONE	SLIGHTLY
ABOVE	CONSIDERATION	GAS	OPEN	SMALL
ACCORDING	CONSIDERATIONS	USES	OPERATING	SCLED
ACCOUNT	CONSIDERING	GENERAL	OPERATION	SOLIDS
ACROSS	CONSISTING	GENERALIZATION	OR	SOLUTION
ACTION	CONSTANT	GENERALIZED	OTHER	SOLUTIONS
ADDITION	CONTAINING	GROWTH	ULT	SOLVING
ADJACENT	CONTINUOUS	HAVING	OVER	SOME
ADVANCED	CONTINUOUSLY	HEAT	PARALLEL	SPECIAL
ADVANCES	CONTRIBUTION	HEATING	PARAMETER	SPEED
AFFECTED	CORRECTION	HEAVY	PARAMETERS	SPEEDS
AFTER	CUMULATIVE	HEIGHT	PART	STABILITY
AGAINST	CURVED	HELP	PARTICULAR	STEADY
AID	DATA	HIGH	PARTLY	STRAIGHT
AIR	DEEP	HIGHER	PARTS	STRENGTH
ALONG	DEFINITION	HIGHLY	PAST	STRESS
ALTERNATING	DEGREE	IDEALLY	PER	STRESSES
ALTITUDE	DEGREES	IMPROVED	PERFORMANCE	STUDIES
AN	DELAY	IMPROVEMENT	PHENOMENA	STUDY
ANALYSES	DEPENDENCE	IN	PHENOMENON	STUDYING
ANALYSIS	DEPTH	INCLUDING	PHYSICAL	SUBJECT
ANALYZING	DERIVATION	INFINITE	PLANE	SUBJECTED
AND	DERIVATIVES	INFINITELY	POINT	SUCCESSIVE
ANY	DESIGN	INFLUENCE	POINTS	SUITABLE
APPLICABILITY	DESIGNING	INFORMATION	POSITION	SUMMARY
APPLICATION	DETERMINING	INITIAL	POSITIVE	SURFACE
APPLICATIONS	DETERMINED	INITIALLY	POSSIBLE	SURFACES
APPLIED	DETERMINING	INSIDE	POWER	SURVEY
APPROACH	DEVELOPMENT	INTERIOR	PRACTICAL	SYMMETRIC
APPROXIMATE	DEVELOPMENTS	INTERNATIONAL	PRACTICE	SYMMETRICAL
APPROXIMATION	DEVICES	INTERNATIONAL	PREDICTED	SYMMETRICALLY
APPROXIMATIONS	DIAGNOSIS	INTERPRETATION	PREDICTING	SYMMETRY
ARBITRARY	DIAGRAMS	INTRODUCTION	PREDICTION	SYMPOSIUM
ARE	DIAMETER	INVESTIGATING	PRELIMINARY	SYSTEM
ARISING	DISCONTINUITY	INVESTIGATION	PRESENT	SYSTEMS
AROUND	DISCONTINUOUS	INVESTIGATIONS	PRESENTATION	TAKEN
ARTIFICIAL	DISCUSSION	INVOLVING	PRESSURE	TECHNICAL
AS	DISTANCE	IRREGULAR	PRESSURES	TECHNIQUE
ASSOCIATED	DISTANCES	IS	PRIMARY	TECHNIQUES
AT	DISTRIBUTION	ITS	PRINCIPAL	TECHNOLOGY
AVERAGE	DISTRIBUTIONS	LABORATORY	PRINCIPLE	TEST
AXIS	DOUBLE	LARGE	PRINCIPLES	TESTING
BACK	DOUBLE	LAW	PROBLEM	TESTS
BASIC	DOUBLE	LAWS	PROBLEMS	THAN
BASIS	DRIVEN	LAYER	PROCEDURE	THAT
BEHAVIOR	DRIVING	LAYERS	PROCEEDINGS	THE
BEHAVIOR	DUE	LENGTH	PROCESS	THEIR
BEMIND	DURATION	LIQUID	PROCESSES	THEORETICAL
BEING	DURING	LIQUIDS	PRODUCED	THEORIES
BETWEEN	EFFECT	LEAD	PRODUCTION	THEORY
BEYOND	EFFECTIVE	LEADED	PRODUCTS	THERMAL
BODIES	EFFECTIVENESS	LOADING	PROGRESS	THICKNESS
BODY	EFFECTS	LOADINGS	PROPERTY	THIN
BOTTOM	EFFICIENCY	LEADS	QUESTIONS	THIRD
BY	ELEVATED	LEGAL	RAPID	THREE
CALCULATED	EMPIRICAL	LEGATION	RAPIDLY	THROUGH
CALCULATING	END	LENGTH	RATIO	TIME
CALCULATION	ENDS	LEN	RATIOS	TIMES
CALCULATIONS	ENGINEERING	LEN	RECENT	TO
CAPABILITIES	ENGINEERS	LOWER	RECTANGULAR	TOTAL
CAPACITY	EQUAL	PAGE	REFERENCE	TRANSFER
CAUSED	EQUATION	PAID	REGARDING	TRANSFERS
CENI	EQUATIONS	MAGNITUDE	REGULAR	TYPE
CENTER	ESTIMATES	MASSIVE	RELATED	UNIFIED
CENTRAL	ESTIMATING	MATERIAL	RELATION	UNIFORM
CENTRALLY	ESTIMATION	MATERIALS	RELATIONSHIP	UNIFORMLY
CERTAIN	EVALUATING	MEANS	RELATIONS	UNIVERSAL
CHANGE	EVALUATION	MEASURE	RELATIONSHIPS	UNSYMMETRICAL
CHANGES	EXACT	MEASURED	REMARKS	UP
CHANGING	EXAMINATION	MEASUREMENT	REPEATED	UPON
CHARTS	EXAMPLE	MEASUREMENTS	REPRESENTATION	UPPER
CHOICE	EXERCISED	MEASURING	REQUIRED	USE
CIRCULAR	EXERTED	MECHANICAL	REQUIREMENTS	USED
CLASS	EXPANSION	MECHANICS	RESEARCH	USING
CLASSICAL	EXPANSIONS	MEDIA	RESEARCHES	USS
CLASSIFICATION	EXPERIMENTAL	MEDIUM	RESULTS	VALUE
CLOSE	EXTENSION	METAL	RETURN	VALUES
CLOSED	EXTERNAL	METALS	RETURN	VARIABLE
COEFFICIENT	EXTERNALLY	METHOD	RISE	VARIED
COEFFICIENTS	FACTOR	METHODS	RISK	VARIOUS
COMBINATION	FACTORS	MILL	SCIENTIFIC	VARYING
COMBINATIONS	FEATURES	MODERN	SCIENTISTS	VELOCITIES
COMBINED	FIELDS	POLYMER	SECTION	VELOCITY
COMPARATIVE	FIELDS	POLYMER	SECTIONS	VERY
COMPARISON	FINAL	POLYMER	SELECTION	VOLUME
COMPARISONS	FINE	POLYMER	SELECTION	WATER
COMPENSATION	FIRST	POLYMER	SEVERAL	WEIGHT
COMPLETE	FIXED	POLYMER	SHAPE	WHERE
COMPONENT	FLAT	NAMING	SHAPES	WHICH
COMPONENTS	LOW	NATURAL	SHAPES	WHOSE
COMPOSED	FLOATING	NATURE	SIMPLE	WIDTH
COMPOSITE	FLOWS	NEAR	SIMPLE	WITH
COMPUTATION	FLOWS	NEAR	SIMPLE	WITHIN
COMPUTING	FLUID	NEAR	SIMPLE	WITHOUT
CONCENTRATED	FLUIDS	NORMAL	SINGLE	ZONAL
CONCENTRATION	FOR	NITE		ZONE
CONCENTRATIONS	FORCE	NITE		
CONCEPT	FORCED	NUMBER		
CONCEPTS	FORCES	NUMBERS		
CONCERNING	FORM	OBSERVATION		
CONDITION	FORWARD	OBSERVATIONS		
CONDITIONS	FOUR	OBSERVE		
CONFERENCE	FROM	OBTAIN		
CONFIGURATION	FULL	OBTAINING		
	FULLY	OCCURRING		
	FUNDAMENTAL	OF		



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