COMPUTER AIDED TYPESETTING AND PHOTOTYPESETTING
A Permutated Title Index, Author Index and Bibliography

by

H.-H. BERNSTEIN

1967

Joint Nuclear Research Center
Ispra Establishment - Italy

Scientific Information Processing Center - CETIS
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SUMMARY

The present bibliography is a result of a state-of-the-art study prepared in 1966 about advanced methods for the preparation of publications and for typesetting, to be applied in the European Communities. Because of the lack of a current bibliographic service in the field, it was decided to make the bibliographic references available outside the organization. The bibliography contains 350 items of which more than 80% date from 1960 and later.

KEYWORDS

COMPUTERS
PHOTOGRAPHY
BIBLIOGRAPHY
Preface.

In 1965 it was decided that the Scientific Information Processing Center of Euratom (CETIS) should collect information about the application of advanced methods in the fields of the preparation of publications, editing and typesetting, in order to know the current state of the art when advice or co-operation in these fields within the European Communities would be asked from this center. One result of that decision was an accumulation of literature and of technical-commercial documents and an accumulation of information about these types of documents. To incorporate the literature into a unique system a permuted title index turned out to be the most reliable tool, needing neither indexing nor a preestablished thesaurus or classification.

The present document presents this permuted title index, the related author index and the bibliography of 350 items. The collection is not exhaustive and does not pretend to be so. For example, the rather voluminous bibliography (211 items) given by Hattery and Bush and the select bibliography (286 items) compiled by Graham were not included systematically. This material, and other which has meanwhile arrived should be the subject of a more complete edition, which, it is to be hoped, will be the fruit of a co-operation between various interested centers.

The bibliographical units have been typed on a Friden Flexowriter, creating library cards for proofreading. The paper tapes obtained have been used as the basis for the production of the different parts of this document. Print-out was done with an IBM printer.

Gratitude should be expressed to E. Kschwendt and to R. Primavera who are responsible for the permuted title program.

Hans-H. Bernstein

Ispra (Va), Italy

September 1967
Introductory Note.

This report consists of three parts: keyword index, author index (including corporate author index) and bibliography. The link between the different parts is an alphanumerical notation derived from the document itself (similar to the system used by "Chemical Titles" or in the "Bibliography of Literature on Information Retrieval and Machine Translation" of IBM). This notation is composed of four letters of the name of the author, two initials of the christian names, the last two digits of the year of publication and the first letter of the first word of the title. Not available information in this notation is indicated by a hyphen in the appropriate position. In case of anonymous documents the first title word enters as name, the fifth letter of the title is put into the position of the last character of the notation.

In the permuted title index the keywords extracted from the titles are printed leftmost. Words not considered of subject interest are excluded from the index. All titles are in English. Original titles other than English are translated and added in parentheses. Keywords from original titles figure in the index.

The author index lists all personal authors included in the bibliography, along with the notation common to the entries in the bibliography. This list is followed by a section giving the corporate authors.

The bibliography gives the citation of the bibliographical data as complete as available, in alphabetical sequence of the entries. The number immediately following the entry is the accession number, which is of no interest for the user outside of the organization which compiled the bibliography. This applies as well to the nucleus of a subject classification given in second place, after the accession number.

Manuscript received on October 13, 1967.
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Emulsions: Whiteprinter spits out proofs but film emulsions are costly.

Encoding: The automatic encoding of chemical structures.

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