

the planning and coordinating of conferences are reported in the second half of the session, together with Belgian experience in developing an SDI announcement service on scientific meetings and the German ZAED effort to collect and make available conference literature.

"Indexing Methods and Systems" covered next contains papers telling of Russian work in setting up a bilingual Russian-English thesaurus for INIS, the EURATOM Cetus automatic indexing project, the development of the CERN subject index and its use in retrieving reports and preprints, and the computer's role in maintaining the EURATOM thesaurus.

The remainder of the symposium volume is devoted to an invited status report on UNISIST, a study of the feasibility of a world scientific information system supported jointly by UNESCO and the International Council of Scientific Unions and INIS papers—a definitive one on the design and implementation of the system by the IAEA personnel responsible for its development and others on its cooperative aspects, and decentralized input processing projects in Sweden and Russia.

This collection of papers like most symposium proceedings covers a wide variety of material, most of it state-of-the-art reports by nuclear librarians, documentalists, and information specialists concerned with putting computer technology to work to assist them in providing information services and devising new techniques to effect scientific communication.

Of the 57 papers included in the publication, 43 are in English, while 8 are in French and 6 in Russian with an English translation of the abstract provided.

Margaret Butler, (AB, Indiana University, 1944) a staff member of Argonne National Laboratory's Applied Mathematics Division, has been in charge of the Argonne Code Center since its founding in 1960 and served as a consultant to the European Nuclear Energy Agency in the planning for their ENEA Computer Programme Library. She headed the Technical Information Subcommittee during her membership on the ANS Publications Committee and is a past Chairman of the Society's Mathematics and Computation Division.

Decontamination of Nuclear Reactors and Equipment

Editor J. J. Ayres

Publisher The Ronald Press Company

Pages 825

Price \$22.50

Reviewer J. A. Buckham

In the preface, Dr. Ayres states the purpose of the book is "to present general information about decontamination operations, especially decontamination of nuclear reactors." This goal is more than achieved by the forty some contributors to this comprehensive technical manual on the decontamination of nuclear facilities. The scope of the work is indicated by selected chapter titles—Cleaning and Defilming Arts, Contamination Mechanisms, Decontamination and Film Removal, Corrosion, Influence of Design on Decontamination, Planning the Operation, Treatment and Disposal of Wastes, Protective Coatings, Specialized Equipment, Ultrasonic Cleaning, Low Temperature Water Cooled Reactors, Pressurized Water Reactors, Boiling Water Reactors, Gas Cooled and Other Reactor Systems, Decontamination of Equipment, Decontamination of Buildings and Laboratories. The list of contributors includes a strong representation of those who have faced routine and severe decontamination problems in the field and have successfully solved these problems. The text is well written with many excellent illustrations, readable data plots, and well-organized summary tables. There are comprehensive subject and author indexes, a glossary of unique technical terms, and valuable lists of proprietary decontamination reagents and equipment. This book is recommended for the engineer who both needs to act in the area of radiochemical decontamination and wishes to understand, to the limits of available basic information, what procedure is best and how to follow it. As the reader understands that decontamination is both an art and a science, he will appreciate the numerous examples of actual large scale decontamination experiences, but will realize that the results obtained in these examples may not be literally translated to his particular

problem; the principles involved can be. The book is written particularly for those directly involved with the decontamination of nuclear reactors, and buildings housing reactors and radiochemical processes. For these people, this book will be a standard reference for many years. Those seeking information on the routine decontamination of radiochemical processing equipment in place will not find the same complete guidance, but will find the book very useful for its exposition of principles and general information. In effect, this book is a required reference for any nuclear installation since the scope and depth of the coverage of the subject could not be obtained by a literature search conducted at any one installation in any nation of the world.

J. A. Buckham (PhD, chemical engineering, University of Washington, 1953), is manager of the Chemical Programs Division of Idaho Nuclear Corporation. Dr. Buckham is the author of numerous technical papers in the fields of nuclear fuel reprocessing, radioactive waste management, waste calcining, and other fluidized-bed processes, and the use of nuclear poisons for process safety.

A. Radioisotope X-Ray Fluorescence Spectrometry

B. Neutron Moisture Gauges

C. Monitoring of Radioactive Contamination on Surfaces

Author International Atomic Energy Agency

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C. 33

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B. \$1.00
C. \$2.00

Reviewers John M. Palms
H. H. Nichols

These three books have recently been published by the International Atomic Energy Agency (IAEA), Vien-