

Part III contains five chapters devoted to hazard control in design and maintenance, including reliability and risk analysis, active protective systems and instrumentation, designing for safety, maintenance and inspection, and safe work permits.

Part IV includes five chapters devoted to management, production and related topics.

In every chapter, excellent photographs and graphs, supplemented with many references from both U.K. and U.S. sources are included.

This book should be well received, and is recommended without qualification to anyone who is concerned with or involved in plant safety and health, regardless of their national bias.

HOWARD H. FAWCETT

Radon, Radium and Uranium in Drinking Water, edited by C.R. Cothorn and P.A. Rebers, Lewis Publishers, Inc., Chelsea, MI, 1990, ISBN 0-87371-207-2, 286 pp., \$69.95

Recently the U.S. Environmental Protection Agency has proposed regulations for radionuclides in drinking water. The readers may be interested in finding out the technical aspects such as source, analysis, risk and treatment technology of radon in water. This book concentrates on radon, radium and uranium in drinking water, and is written by 31 authors.

There are 17 different papers covering various aspects of radionuclides in drinking water. The main themes of each paper are as follows:

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| (1) Regulations | (10) Absorption of soluble uranium by humans |
| (2) Health risk | (11) Laboratory determination of uranium |
| (3) Risk assessment | (12) Removal of uranium |
| (4) Treatment technology | (13) Measurement of radon in water |
| (5) Transfer of radon into house | (14) Analytical techniques for the determination of radium |
| (6) Theory of radiation carcinogenesis | (15) Rationality of radon removal |
| (7) Geology | (16) Removal of radium |
| (8) Occurrence of radon in the drinking water | (17) Disposal of radium |
| (9) Economic analysis of radionuclide removal | |

There is some overlap of material from one paper to another.

The discussion includes graphs and tables. The book provides an overview on the radon problem in water. References are included with each paper. The

references cited are generally up to 1988. The same format, for each paper, has been used to typeset the book.

The book includes abbreviations, a glossary and an index. It will be difficult to use the book as a textbook. However, health scientists will find the document informative and useful for their day-to-day work.

ASHOK KUMAR

Environmental Data Bases: Design, Implementation and Maintenance, by Gene Y. Michael, Lewis Publishers Inc., Chelsea, MI, 1991, ISBN 0-87371-422-9, 98 pp., \$34.95.

There is a growing need to develop data bases in the environmental field. Data bases are used to identify, to solve and to manage environmental problems. This book concentrates on computerization of environmental data bases.

The book is divided in seven chapters: 1. Introduction, 2. Data requirements, 3. Data base design, 4. Software, 5. Hardware, 6. Other considerations, and 7. Personal references.

Chapter 1 discusses the need to develop data bases and their use in modeling, monitoring and regulatory matters. Chapters 2, 3 and 4 concentrate on basic design, data base terminology and choices of data base management systems. Hardware requirements are given in Chapter 5. Practical questions which arise during the development and operation of a data base are briefly reviewed in Chapters 6 and 7.

The book is useful for those who have no knowledge of computers and data base management system technology. The discussion of major data base projects will be helpful for readers. A list of references may be included in a future edition of the book.

ASHOK KUMAR

Active and Passive Smoking Hazards in the Work Place, by Judith A. Douville, Van Nostrand Reinhold, New York, NY, 1990, ISBN 0-442-00167-3, 221 pp., \$29.95.

Everyone talks about restrictions on smoking in the work place. Do you want to get some information on this topic? This book will provide you with some help.

There are seven chapters in the book: 1. Active and passive smoking, 2. Work place hazards of smoking, 3. Employer considerations and workplace smoking, 4. Work place restrictions on smoking: decisions and policy making, 5. Costs