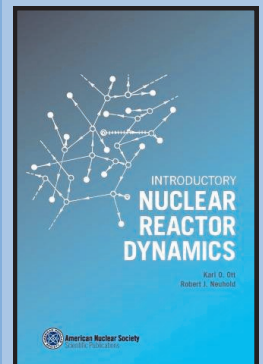
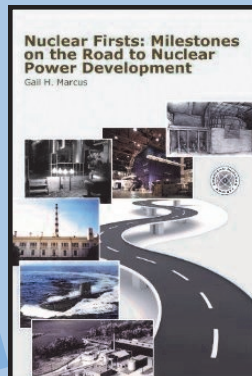
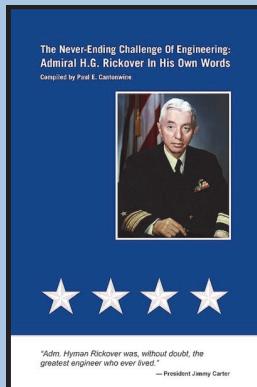
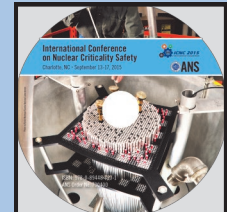
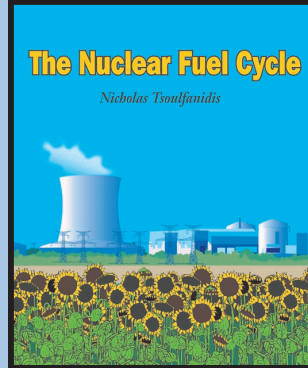
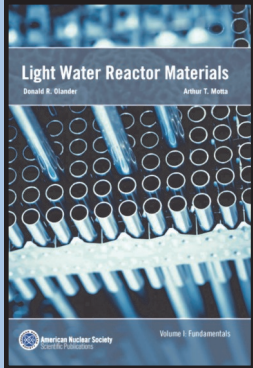




# American Nuclear Society Scientific Publications Catalog 2018



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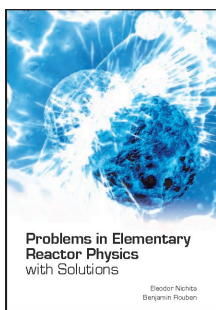
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## Featured Textbooks and Monographs

### Problems in Elementary Reactor Physics, with Solutions



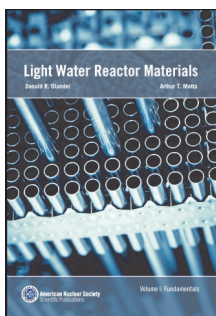
Eleodor M. Nichita and Benjamin Rouben

**\$90.00**, hardcover | ID: 350027

This collection of problems is intended primarily for undergraduate students studying reactor physics. Graduate students and nuclear-industry professionals interested in reviewing fundamental reactor-physics concepts will also find it useful. Readers will get a better understanding of essential reactor-physics concepts through simple problems with solutions that require, for the most part, only modest mathematical tools that won't obscure the underlying physical phenomena. The originality of included problems makes them a valuable complement to those found in undergraduate reactor-physics textbooks. Detailed solutions are provided for all the problems in the book. A comprehensive summary of definitions and formulas useful for solving elementary reactor-physics problems is also included. (2017)

ed problems makes them a valuable complement to those found in undergraduate reactor-physics textbooks. Detailed solutions are provided for all the problems in the book. A comprehensive summary of definitions and formulas useful for solving elementary reactor-physics problems is also included. (2017)

### Light Water Reactor Materials, Volume 1: Fundamentals



Donald R. Olander and Arthur T. Motta

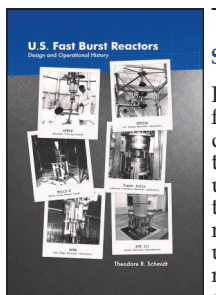
**\$150.00**, hardcover, 866 pages | ID: 350026

*Light Water Reactor Materials* describes the fundamentals of nuclear materials behavior in light water reactors. This textbook is intended both for upper division undergraduate and for graduate students as well as for researchers in the field.

Volume 1: Fundamentals includes thermodynamics, crystallography, diffusion, elasticity, dislocations, grain boundaries, nuclear heat production, phase transformations, mechanical behavior, radiation damage and microstructure

evolution, and aqueous corrosion, as well as a chapter by Brian Wirth on computational materials. The forthcoming second volume (Applications) will cover specific materials degradation phenomena, such as mechanical property changes, irradiation-induced deformation, corrosion and hydriding, severe accident analysis, and other phenomena that affect in-reactor materials performance. Simple analytical models describe the processes of interest while providing physical insight. Quantitative calculations are thus favored over qualitative descriptions. Examples are provided throughout as well as homework problems at the end of each chapter. (2017)

### U.S. Fast Burst Reactors: Design and Operational History



Theodore R. Schmidt

**\$39.00**, hardcover, 334 pages | ID: 300037

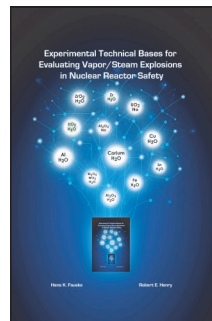
Fast burst reactors (FBRs) were some of the few first nonpower, or research, class of reactors to be designed and operated. They were the first reactors to be constructed entirely of highly enriched uranium and the first to demonstrate that core thermal expansion would be sufficient to terminate a pulse. They were also the first nonpower uranium-fueled reactors to operate with a fast-neutron spectrum and to achieve criticality solely using prompt neutrons. FBRs are considered

nonpower reactors even though the peak power level in a pulse can be as high as 100,000 MW. Since FBRs use enriched uranium as fuel, all of the FBRs in the United States have been operated in U.S. federal government facilities.

This monograph encompasses and captures the near-total effort of the FBR work in the United States to date. It includes an historical back-

ground and technical descriptions of all 14 FBRs designed and the 13 FBRs operated in this country in the past six decades—two of which are still operating. It was written to summarize the wealth of information developed in the design and operation of FBRs and to recognize and preserve the enormous contribution of FBRs to scientific knowledge. It also serves as a textbook on how to design, build, and operate an FBR and its associated facility. (2017)

### Experimental Technical Bases for Evaluating Vapor/Steam Explosions in Nuclear Reactor Safety



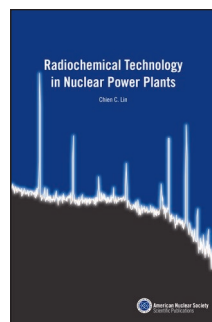
Hans K. Fauske and Robert E. Henry

**\$95.00**, hardcover, 390 pages | ID: 300036

Vapor/steam explosions are important considerations for a safety assessment where a high temperature molten mass could contact a liquid coolant. It is essential that these potential accident conditions are evaluated in a manner consistent with the available experimental technical bases. This book provides a common reference for the extensive experimental data base that has been accumulated due to the substantial works of industrial, national, and university laboratories throughout the world, to help all studies include the total experimental data base

as well as that which directly relates to the molten materials and coolant of interest. In addition, it provides a common reference so that such evaluations can either reference this book, or consult the references given within to find the sources where further details can be obtained when needed. Lastly, the measured energy releases for key experiments are compared with straightforward bounding calculations that can be used to facilitate discussions between reactor designers, utilities, and regulatory agencies. (2017)

### Radiochemical Technology in Nuclear Power Plants



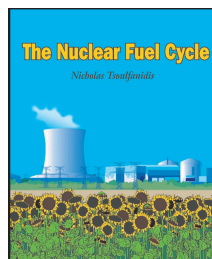
Chien C. Lin

**\$79.00**, hardcover, 295 pages | ID: 300035

This book is a revision of *Radiochemistry in Nuclear Power Reactors*, which was published in 1996 by the National Research Council. This book deals with two types of light water reactors—BWRs and PWRs—and there is a new chapter on radiochemistry fundamentals to provide materials for those who have not been previously exposed to a basic radiochemistry course in college.

Also included are discussions of applications and sophisticated techniques that have been developed in past years, updated data and information on activated corrosion products and radiation buildup control, and details about fission product measurements and fuel integrity failure evaluation. (2013)

### The Nuclear Fuel Cycle



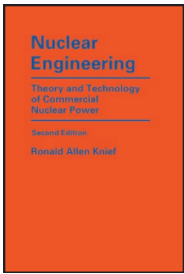
Nicholas Tsoulfanidis

**\$126.00**, hardcover, 460 pages | ID: 350024

The most complete and up-to-date textbook on all aspects of the nuclear fuel cycle. This edition covers the whole cycle, from cradle to grave. Topics include available nuclear fuel resources (uranium and thorium), extraction of the metals from the ore, fabrication of the nuclear fuel and use of the fuel for power generation, and management and disposal of used fuel and radioactive wastes. Other topics discussed are basic reactor physics, in-core and out-of-core fuel management, possible fuel cycles, nuclear power economics, and nuclear safeguards.

In this edition, Dr. Tsoulfanidis examines the current issues in nuclear power with new chapters covering both international and domestic policies as well as an in-depth look into the environmental effects of the generation of electricity. This edition provides the reader with the latest data, techniques, computing methods, and policies and regulations as they existed in 2012. (2013)

## Nuclear Engineering: Theory and Technology of Commercial Nuclear Power, Second Edition

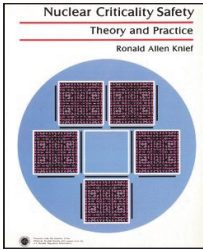


Ronald Allen Knief

**\$100.00**, hardcover, 770 pages | ID: 350023

This textbook is a reprint of the second edition originally published in 1992. It provides broad subject-area coverage, application of theory to practical aspects of commercial nuclear power, and use of instructional objectives. It focuses on what distinguishes nuclear engineering from the other engineering disciplines. It also seeks to unravel key acronyms and other terminology, including occasional historical examples where the jargon has outlived the viability of underlying concepts. (2014)

## Nuclear Criticality Safety: Theory and Practice

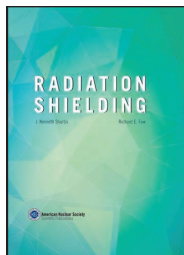


Ronald Allen Knief

**\$65.00**, softcover, 236 pages | ID: 300020

Nuclear criticality safety is the prevention of nuclear chain reactions in fissile materials outside of reactors. This book presents the underlying principles of nuclear criticality safety theory along with descriptions of the principal methods currently used and their in-plant applications. Exercises are provided at the end of each chapter to increase understanding of the text. (1985)

## Radiation Shielding

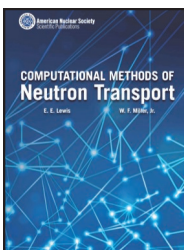


J. Kenneth Shultis and Richard E. Faw

**\$81.00**, hardcover, 537 pages | ID: 350021

This book is intended for dual use as a textbook for students in radiation shielding courses and as a reference work for shielding practitioners. It emphasizes the principles behind techniques used in various aspects of shield analysis and presents these principles in many different contexts. This approach is intended to provide a strong base of understanding in order to facilitate use of the large shielding codes that have come to dominate shielding design and analysis. An assumption is made that the reader has an understanding of mathematics through basic calculus and vector analysis as well as a knowledge of the nuclear physics of radioactive decay. For most chapters, problem sets are provided. (2000)

## Computational Methods of Neutron Transport



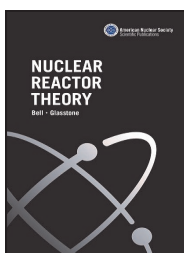
E. E. Lewis and W. F. Miller, Jr.

**\$76.00**, hardcover, 400 pages | ID: 350016

This book presents a balanced overview of the major methods currently available for obtaining numerical solutions in neutron and gamma-ray transport. It focuses on methods particularly applicable to the complex problems encountered in the analysis of reactors, fusion devices, radiation shielding, and other nuclear systems. It is valuable as a self-contained reference and as a text to practicing engineers involved in research and development,

to users of large transport computer codes for engineering analysis, and to first-year grad students. (1993)

## Nuclear Reactor Theory



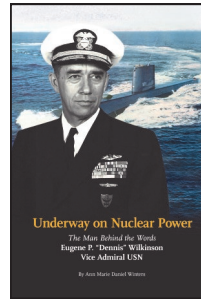
George Bell and Samuel Glasstone

**\$58.00**, softcover, 619 pages | ID: 350025

ANS has reproduced the long out-of-print *Nuclear Reactor Theory*, thanks to the Department of Energy, which holds the book's copyright. The book explains the most important physical concepts and mathematical methods commonly used in predicting the behavior of neutrons in nuclear reactors. It serves as an excellent introduction to reactor theory for physicists, mathematicians, and engineers and was written by two pioneers in the nuclear

field. This seminal work is a must for any student of nuclear theory. (1970)

## Underway on Nuclear Power! The Man Behind the Words: Eugene P. "Dennis" Wilkinson, Vice Admiral USN

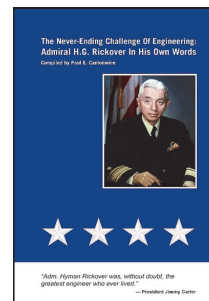


Ann Marie Daniel Winters

**\$29.95** hardcover, **\$9.99** epub, 528 pages | ID: 690096

Often called a cowboy, maverick, visionary, innovator, and superb leader, Dennis Wilkinson had remarkable careers in the Navy nuclear propulsion program and the commercial nuclear power industry. His involvement with the Navy gave nuclear power "celebrity status" at a time when the United States and the world were grappling with somber and frightening Cold War issues. After his Navy career, Wilkinson spent four years as the first CEO of the Institute of Nuclear Power Operations. He put in place an organization that led to cohesive industry partnerships and worldwide improvements in nuclear plant safety and reliability. (2016)

## The Never-Ending Challenge of Engineering: Admiral H. G. Rickover in His Own Words

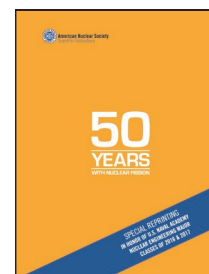


Paul E. Cantonwine, Editor

**\$34.95** hardcover, **\$20.00** paperback, **\$9.99** epub, 280 pages | ID: 690090

This book is a practical and philosophical look at the principles used by engineers from the perspective of one of America's greatest engineers, Admiral Hyman George Rickover. He is an icon in the history of nuclear power, and one of his greatest contributions was to develop nuclear power technology to meet much higher safety and quality standards than past technological developments. The record of safety in Rickover's nuclear Navy and in the U.S. commercial nuclear industry is unique in the history of power technology, and thus the thoughts of the man most responsible for how nuclear power technology was developed in the United States should be of interest to everyone working in a technical field—especially ones where customer/public safety and quality are paramount. (2013)

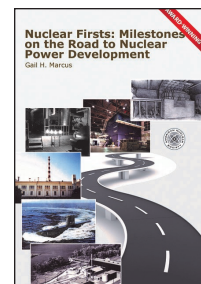
## 50 Years with Nuclear Fission *Special Reprinting*



**\$58.00**, softcover, 976 pages | ID: 690091

Celebrate the history of nuclear technology with this special reprinting of *50 Years with Nuclear Fission*. December 2013 marks the 75th anniversary of fission's discovery, and to mark this diamond anniversary the American Nuclear Society is reproducing the proceedings from the 1989 ANS topical conference covering the first 50 years following the discovery. About 20 pioneers of the nuclear enterprise—including Alvin Weinberg, Pavle Savić, Glenn Seaborg, Edward Teller, John Wheeler, Chauncey Starr, and Walter Zinn—attended the conference and wrote papers for the proceedings. (2013)

## Nuclear Firsts: Milestones on the Road to Nuclear Power Development

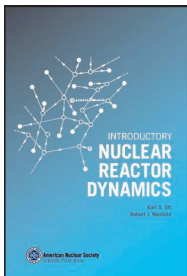


Gail H. Marcus

**\$47.00**, hardcover, **\$9.99** epub, 297 pages | ID: 690078

*Nuclear Firsts* is the first book to comprehensively trace the technical evolution of nuclear power development, both in the United States and elsewhere. In all, about 80 facilities and events in more than 10 countries are profiled. Developments in reactor technologies of all types are covered, as well as developments in reprocessing, enrichment, waste disposal, and some nonelectric applications of reactors (radioisotope production, district heating, desalination, and neutron beam therapy). The book also covers the first government and private organizations that developed around the nuclear industry. (2010)

## Introductory Nuclear Reactor Dynamics

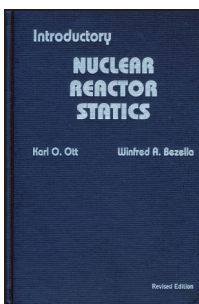


Karl O. Ott and Robert J. Neuhold

**\$70.00**, hardcover, 363 pages | ID: 350011

This text presents the theory and methods of prediction that are the heart of nuclear reactor safety. Time-dependent reactor behavior is explained in both mathematical and physical terms. This book also explains the logic behind the working formulas and calculational methods for reactor transients and illustrates typical dynamic responses. The classical concept of point kinetics is developed in three steps, with discussion of various solutions to kinetics problems. Each chapter includes homework problems and review questions. (1985)

## Introductory Nuclear Reactor Statics



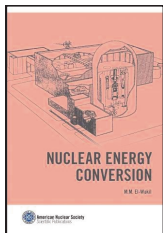
Karl O. Ott and Winfred A. Bezella

**\$79.00**, hardcover, 385 pages | ID: 350013

This revised edition spells out a systematic mathematical approach to nuclear statics that is used as the basis for most practical calculations. A good understanding of the way nuclear reactors are described in mathematical theory is important in performing typical nuclear engineering tasks such as defining reactor problems, evaluating the results, and judging possible deficiencies in approaches. Recommended as a textbook and also useful as a source book for reactor analysis and design, this book presents the mathematical foundation for the advanced treatment of the steady-state behavior of all types of nuclear reactors. Each chapter concludes with homework problems and review questions. (1989)

mathematical foundation for the advanced treatment of the steady-state behavior of all types of nuclear reactors. Each chapter concludes with homework problems and review questions. (1989)

## Nuclear Energy Conversion

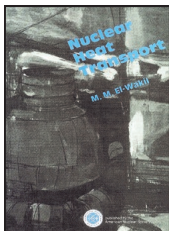


M. M. El-Wakil

**\$80.00**, hardcover, 666 pages | ID: 350008

This text presents and illustrates the conversion of nuclear energy into useful power. Different types of nuclear power plants and reactor designs and their energy conversion principles, cycles, and load-following characteristics are analyzed. Each chapter concludes with homework problems for the student. (1982)

## Nuclear Heat Transport

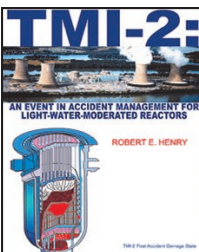


M. M. El-Wakil

**\$69.00**, hardcover, 502 pages | ID: 350007

This book covers the processes of energy (heat) generation in nuclear processes, the transport of that energy by the reactor coolant to the power cycle, and the limitations imposed by the transport mechanism on the design of nuclear reactor cores. Homework problems are presented at the end of each chapter. (1978)

## TMI-2: An Event in Accident Management for Light-Water-Moderated Reactors



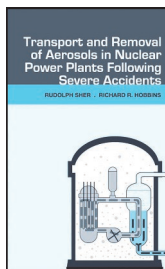
Robert E. Henry

**\$89.00**, hardcover, 258 pages | ID: 300034

This is a treatment in accident management for light-water-moderated reactors, a subject of importance as reemphasized by the tragic nuclear incident at Fukushima on March 11, 2011. As the nuclear industry strives to eliminate nuclear reactor incidents altogether, we must take full advantage of lessons learned from such accidents. Dr. Henry has clearly done so in this book on the accident management lessons from the

TMI-2 incident as they relate to accident management guidelines. In addition, this book provides an excellent example for future needed assessments of lessons learned from the Fukushima event. (2011)

## Transport and Removal of Aerosols in Nuclear Power Plants Following Severe Accidents

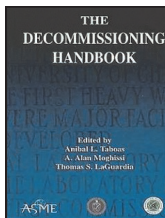


Rudolph Sher and Richard R. Hobbins

**\$74.00**, hardcover, 218 pages | ID: 300033

Sher and Hobbins present the current state of knowledge of the chemical and thermodynamic phenomena taking place in reactor cores during the progression of accidents; the formation and physical and chemical properties of the aerosols; the timing and duration of the aerosol release from the core to the coolant and containment; and the physical, chemical, and thermal-hydraulic phenomena that govern the removal of aerosols from the containment atmosphere, which often result in only a small fraction of the aerosol being released to other parts of the plant or to the outside environment. (2011)

## The Decommissioning Handbook

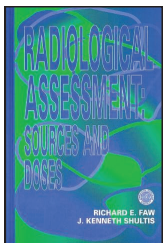


Anibal L. Taboas, A. Alan Moghissi, and Thomas S. LaGuardia, Editors

**\$105.00**, hardcover, 410 pages | ID: 300031

Sponsored by the American Nuclear Society, the American Society of Mechanical Engineers, and the U.S. Department of Energy, this authoritative reference in nuclear decommissioning is a comprehensive effort combining policy, engineering, and science. It provides both a full introduction for those new to the field and a current desk reference on regulations, resources, and experience. The printed text is supplemented with a compact disk. (2004)

## Radiological Assessment: Sources and Doses

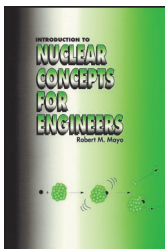


Richard E. Faw and J. Kenneth Shultis

**\$81.00**, hardcover, 680 pages | ID: 350020

The topics emphasized in this updated, reprinted textbook encompass one major aspect of radiation protection, radiological assessment, as well as a major aspect of each of the fields of health physics, medical physics, and industrial hygiene. This textbook presents basic ideas and concepts in sufficient detail and in unified fashion to allow readers to gain a thorough understanding of the principles and techniques used in radiological analyses. Although the principles of radiological assessment are emphasized, a relatively large amount of data is provided in the chapters and in the appendixes to allow the reader to perform a wide range of realistic calculations. Most chapters are supplemented with examples and exercises, and students are urged to study the examples and complete the exercises. (1999)

## Introduction to Nuclear Concepts for Engineers

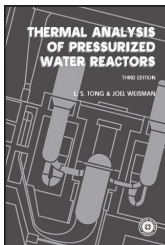


Robert M. Mayo

**\$68.00**, hardcover, 361 pages | ID: 350019

This textbook presents students with nuclear concepts, models, vocabulary, and problem-solving skills that are essential for success in subsequent coursework in reactor theory and engineering. Designed for a sophomore science or engineering student with a firm foundation in the basics of college physics and mathematics through ordinary differential equations, this book addresses concepts in modern physics (special relativity, quantum concepts, etc.) and develops those concepts as necessary in the presentation of the material. The text objective is to present fundamental nuclear principles in a clear and understandable yet physically sound manner. (1998)

## Thermal Analysis of Pressurized Water Reactors, Third Edition



L. S. Tong and Joel Weisman

**\$147.00**, softcover, 748 pages | ID: 300028

The basic objective of this book is to present the principles underlying the thermal and hydraulic design of pressurized water reactors. In addition, the empirical data, engineering properties, and computer techniques required for design, but not available in conventional handbooks, are presented or referenced. Because of the many advances and

changes that have occurred since the second edition, extensive improvements in both understanding the phenomena involved and in calculational techniques are reflected in the substantial additions to this third edition. Also, an additional chapter has been added to accommodate the many developments in the area of safety analysis. This book is intended to provide an overview for nuclear engineering graduate students and to serve as a reference for engineers working in the nuclear power industry. (1996)

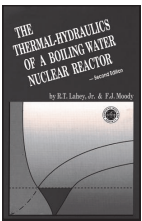
### Nuclear Power from Underseas to Outer Space



John W. Simpson  
**\$68.00**, hardcover, 468 pages | ID: 690042

John Simpson, former president of Westinghouse and past president of the American Nuclear Society, provides a vibrant account of the events associated with the birth of the nuclear industry. Simpson's account of his career and the many turns it took is formidable. Sixteen chapters provide the reader with a historical perspective portrayed by a person whose role, energy, and contributions to the development of fission power are significant. Simpson takes you through the building and operation of the first submarine, nuclear propulsion units, Shippingport, the astronuclear years, and early commercial power. Written largely in narrative and anecdotal form, the technical story is also provided. The final chapter provides a summary and the author's thought-provoking view of the future of nuclear power. (1995)

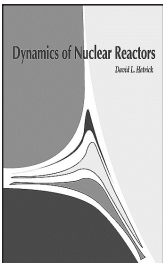
### The Thermal-Hydraulics of a Boiling Water Nuclear Reactor, Second Edition



R. T. Lahey, Jr., and F. J. Moody  
**\$99.00**, hardcover, 631 pages | ID: 300026

This new edition of the classic monograph gives a comprehensive overview of the thermal-hydraulic technology underlying the design, operation, and safety assessment of boiling water reactors. In addition, new material on pressure suppression containment technology is presented. (1996)

### Dynamics of Nuclear Reactors

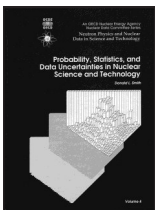


David L. Hetrick  
**\$84.00**, hardcover, 542 pages | ID: 350017

The topic of reactor dynamics, particularly in the form necessary to understand the computation that occurs both in control system analysis and safety analysis, is treated only incompletely in previous texts. One of this book's important features is that it bridges the gap between the viewpoints of the reactor physicist and the control engineer. It brings them together in such a way that the reader will be able to communicate in the language of either persuasion.

This is a text in nuclear reactor dynamics suitable for undergraduate seniors and graduate students in science and engineering. (1993)

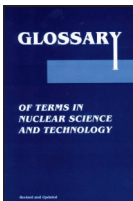
### Probability, Statistics, and Data Uncertainties in Nuclear Science and Technology



Donald L. Smith  
**\$42.00**, hardcover, 269 pages | ID: 300025

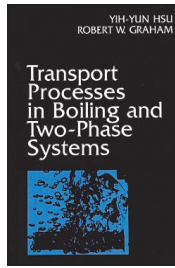
The basic concepts of probability and statistics in nuclear science are explained in detail, and their applications to practical problems are illustrated with examples rather than formal proofs. An extensive bibliography is included. (1991)

### Glossary of Terms in Nuclear Science and Technology



**\$36.00**, softcover, 132 pages | ID: 690010  
 Compiled by the ANS Standards Subcommittee on Nuclear Terminology and Units, this reference covers all areas of the field, including nuclear reactor physics, shielding, health physics, instrumentation, utility jargon, and regulatory and safeguard terms. (1986)

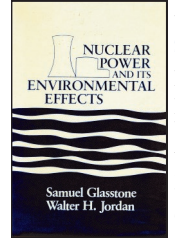
### Transport Processes in Boiling and Two-Phase Systems: Including Near-Critical Fluids



Yih-Yun Hsu and Robert W. Graham  
**\$84.00**, hardcover, 589 pages | ID: 300021

This book presents concise views of current theories on boiling and two-phase flow and on supercritical heat transfer. The mechanisms of these two modes of heat transfer are compared and contrasted. The theories propose to interpret the observed phenomena from a mechanistic viewpoint, with supporting correlations and equations. Each subsection includes a summary and reference list, and nomenclatures are provided for each major section. (1986)

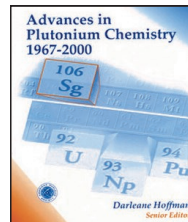
### Nuclear Power and Its Environmental Effects



Samuel Glasstone and Walter H. Jordan  
**\$35.00**, hardcover, 395 pages | ID: 690006

From the mining of uranium to the disposal of waste products, the production of nuclear power has unique environmental effects. In *Nuclear Power and Its Environmental Effects*, Glasstone and Jordan describe these effects and necessary safety measures in the hope of placing them in perspective for the general public, which must have understandable data. (1980)

### Advances in Plutonium Chemistry 1967-2000

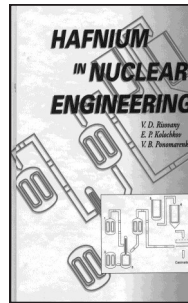


Darleane C. Hoffman, Senior Editor  
**\$79.00**, hardcover, 320 pages | ID: 300029

Published by the American Nuclear Society and the University Research Alliance in Amarillo, Texas, with the support of the U.S. Department of Energy, *Advances in Plutonium Chemistry* is intended as an authoritative and scholarly reference for the research chemist and for professors and upper-division undergraduate and graduate students in chemistry and related disciplines. An impressive

roster of over 20 internationally recognized experts were assembled to cover the many subdisciplines of plutonium chemistry. (2002)

### Hafnium in Nuclear Engineering

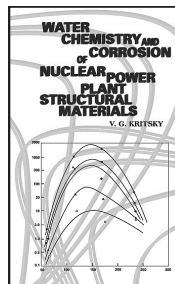


V. D. Risovany, E. P. Kolochkov, and V. B. Ponomarenko  
**\$29.00**, hardcover, 101 pages | ID: 690056

The practical interest in hafnium expressed by nuclear engineers and the recently increased number of scientific publications on it make a systematic work of collected data very important and timely. Along with results already published, this book includes original data obtained by the authors on hafnium radiation and corrosion resistance. Attention was paid to the main features of hafnium production as well as the subsequent fabrication technologies, since the performance of

hafnium components strongly depends on the properties of the original materials. (2001)

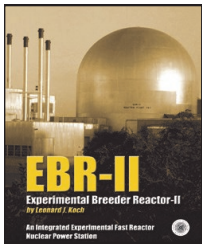
### Water Chemistry and Corrosion of Nuclear Power Plant Structural Materials



V. G. Kritsky  
**\$67.00**, hardcover, 313 pages | ID: 690053

This book addresses structural material corrosion in coolant circuits, simulation of erosion corrosion of carbon and low-alloy steels, and simulation of stress corrosion. It also discusses corrosion of copper alloys, zirconium corrosion, optimization of water chemistry at operating nuclear power plants, coolant tendency to deposit hardness salts on heat-transfer surfaces, and inspection of metallic components. In addition, there are two appendices, the first showing the chemical composition of steels, the second discussing solubility of iron, cobalt, zinc, and copper corrosion products under conditions simulating power unit water chemistry. (1995)

## Experimental Breeder Reactor-II (EBR-II): An Integrated Experimental Fast Reactor Nuclear Power Station



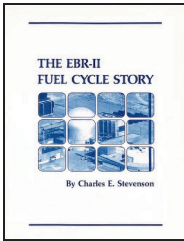
Leonard J. Koch

**\$68.00**, softcover, 240 pages | ID: 300032

This book provides a detailed account of the development, design, construction, and initial operation of the Experimental Breeder Reactor-II (EBR-II) and the associated pyrometallurgical processing facility. This firsthand account includes a detailed presentation of the design and construction of the reactor as well as numerous original drawings and photographs. Explanation of certain design choices is provided as well as

experiences gained with the EBR-II. Also of general and historical interest, this book includes an appendix that traces the lineage of EBR-II, beginning with Enrico Fermi and Walter Zinn and progressing to the EBR-II project itself. (2008)

## The EBR-II Fuel Cycle Story



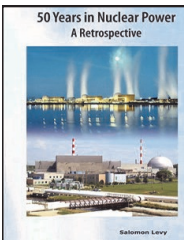
Charles E. Stevenson | ID: 300022

**\$68.00**, softcover, 256 pages

This comprehensive volume on the history of the EBR-II Fuel Cycle Facility (FCF) packaged in a compact, easily readable form offers both the historical perspective and reasons why the project was so successful. The coverage of the operation of the FCF in conjunction with the EBR-II some years ago has been prepared because of the unique nature of the compact, co-located pyromet-

allurgical processing system that was demonstrated at that time. Up to this point detailed results and problems have not been made available to the nuclear community. (1987)

## 50 Years in Nuclear Power: A Retrospective



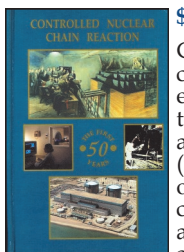
Salomon Levy

**\$11.00**, hardcover, 206 pages | ID: 690075

This book describes many significant experiences over a period of about 50 years in the field of nuclear power-generated electricity. The first 25 years deal with the development, design, safety, manufacturing, licensing, and operations of light water reactors and particularly of General Electric (GE) boiling water reactors. That was also the time when perceptions about nuclear power

changed and no new orders for nuclear power were forthcoming. The subsequent 25 years cover the formation and operation of engineering/management firm S. Levy Incorporated (SLI), which provided consulting services to the entire nuclear industry. (2007)

## Controlled Nuclear Chain Reaction: The First 50 Years

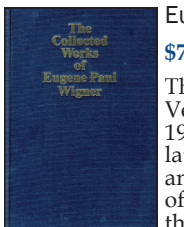


**\$25.00**, hardcover, 193 pages | ID: 690032

Commemorating the 50th anniversary of the first controlled nuclear chain reaction, this book discusses in clearly written language the events that led up to that historical event, the scientific basis for nuclear energy and its various peaceful applications (power, industrial uses, medicine), the development of nuclear power worldwide, and the future of nuclear energy. This is the book that was distributed at the 1992 ANS Meeting in Chicago. It's a must for anyone who wants to know the history, the people,

and the science behind nuclear energy. (1992)

## The Collected Works of Eugene Paul Wigner

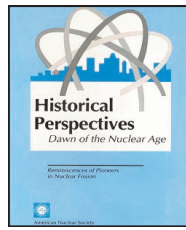


Eugene Paul Wigner

**\$76.00**, hardcover, 808 pages | ID: 690035

This book, part of a collection published by Springer-Verlag, contains Eugene Wigner's memoirs from 1941 to 1948 as well as 42 reports and 12 patents related to nuclear energy. It is essential reading for anyone who wants to know more about the founder of nuclear engineering, from both the historical and the scientific perspective. (1992)

## Historical Perspectives: Dawn of the Nuclear Age



**\$23.00**, softcover, 46 pages | ID: 690016

Published on the 50th anniversary of the discovery of nuclear fission, this volume collects the reminiscences of some of the pioneers of the nuclear age under one cover. Based on addresses delivered at a special symposium sponsored by ANS, these trailblazers recount milestones in the development of nuclear energy. Among them are the discovery of fission and proof of sustainability of a chain reaction, the history behind the building of the

Stagg Field Reactor, the origins and management of the Manhattan Project, and the development of nuclear energy for electricity generation at the Shippingport plant. This book is a valuable resource for anyone interested in the origins of nuclear technology, the personalities involved, and the political and historical realities of the times. (1989)

## More Books and Miscellaneous Publications

Professional Engineering Examination Study Guide for Nuclear Engineers

**\$210.00**, CD-ROM | ID: 690025 (2012)

Radiation Damage of Nuclear Power Plant Pressure Vessel Steels

N. N. Alekseenko, A. Amaev, I. Gorynin, and V. A. Nikolaev

**\$60.00**, hardcover, 282 pages | ID: 690051 (1997)

Structure, Strength, and Radiation Damage of Corrosion-Resistant Steels and Alloys

A. M. Parshin

**\$68.00**, hardcover, 359 pages | ID: 690050 (1996)

The Management of Low Level Radioactive Waste

Clarence J. Hardy

**\$11.00**, softcover, 50 pages | ID: 690049 (1995)

Thermal and Flow Design of Helium-Cooled Reactors

Gilbert Melese and Robert Katz

**\$79.00**, hardcover, 410 pages | ID: 300019 (1984)

Power Reactor Noise

Joseph A. Thie

**\$68.00**, hardcover, 208 pages | ID: 300018 (1981)

Detection of Fissionable Materials by Nondestructive Means

R. Sher and S. Untermeyer II

**\$87.00**, hardcover, 286 pages | ID: 300017 (1980)

Water Coolant Technology of Power Reactors

Paul Cohen

**\$50.00**, hardcover, 439 pages | ID: 300016 (1980)

Thermal Analysis of Liquid Metal Fast Breeder Reactor

Y. S. Tang, R. D. Coffield, Jr., R. A. Markley

**\$72.00**, hardcover, 395 pages | ID: 300013 (1978)

- Reactivity Coefficients in Large Fast Power Reactors  
Harry H. Hummel and David Okrent  
**\$47.00**, hardcover, 394 pages | ID: 300002 (1978)
- Boiling Liquid-Metal Heat Transfer  
O. E. Dwyer  
**\$46.00**, hardcover, 446 pages | ID: 300008 (1976)
- Small-Sample Reactivity Measurements in Nuclear Reactors  
Wesley K. Foell  
**\$48.00**, hardcover, 249 pages | ID: 300005 (1972)
- Direct Conversion of Nuclear Radiation Energy  
George H. Miley  
**\$42.00**, hardcover, 518 pages | ID: 300003 (1970)
- Nuclear Materials: Accountability Management Safeguards  
James E. Lovett  
**\$34.00**, hardcover, 298 pages | ID: 300007 (1974)
- Expert Systems Applications Within the Nuclear Industry  
John A. Bernard and Takashi Washio  
**\$58.00**, softcover, 249 pages | ID: 300024 (1989)
- Design Guides for Radioactive Material Handling Facilities and Equipment  
**\$54.00**, softcover, 252 pages | ID: 690014 (1988)
- Fermi-I: New Age for Nuclear Power  
E. Alexanderson and H. A. Wagner, Editors  
**\$50.00**, hardcover, 454 pages | ID: 690004 (1979)
- Nuclear Energy in Germany  
K. Winnacker and K. Wirtz  
**\$68.00**, hardcover, 356 pages | ID: 690003 (1979)
- The Scientific Basis for Communication About Events Involving Radiological Dispersion Devices  
**\$53.00**, softcover, 160 pages | ID: 690062 (2003)
- Worldwide Integrated View on Main Nuclear Energy Issues  
**\$27.00**, softcover, 312 pages | ID: 690052 (1999)
- A Vision for the Second Fifty Years of Nuclear Energy  
**\$27.00**, softcover, 71 pages | ID: 690048 (1996)
- A Dialogue on Chemically-Induced Nuclear Effects: A Guide for the Perplexed About Cold Fusion  
Nate Hoffman  
**\$37.00**, softcover, 215 pages | ID: 690041 (1995)
- Ex-USSR Uranium Raw Materials Resources  
Nuclear Society International/Moscow  
**\$28.00**, softcover, 60 pages | ID: 690040 (1992)
- Conversations About Electricity and the Future  
Albert David Rossin and Thomas K. Fowler, Editors  
**\$14.00**, softcover, 261 pages | ID: 690028 (1991)
- Power Development in a Developing Country: Experiences with Taipower  
David S. L. Chu  
**\$44.00**, hardcover, 350 pages | ID: 300023 (1989)
- Research, Training, Test, and Production Reactor Directory, Third Edition  
**\$5.00**, softcover, 875 pages | ID: 250011 (1988)
- Continuing the Nuclear Dialogue  
Alvin M. Weinberg  
**\$38.00**, softcover, 204 pages | ID: 690009 (1985)
- Atomic Complex: A Worldwide Political History of Nuclear Energy  
Bertrand Goldschmidt  
**\$56.00 / \$44.00**, hardcover / softcover, 478 pages | ID: 690007 / 690008 (1982)
- Fabrication of Thorium Fuel Elements  
L. R. Weissert and G. Schileo  
**\$26.00**, hardcover, 208 pages | ID: 300001 (1968)
- Nuclear News World List of Nuclear Power Plants  
**\$25.00**, PDF / booklet, 32 pages | ID: 690070 (2017)
- U.S. Power Reactor Performance, 2005-2007  
**\$16.00**, softcover, 135 pages | ID: 690077 (2008)
- President's Special Session, Low-Level Radiation and Its Implications for Fukushima Recovery  
**Free download**, 198 pages | ID: 690089 (2012)
- Special Report on the Protection and Management of Plutonium  
**\$27.00**, softcover, 86 pages | ID: 690047 (1995)
- Report of the Special Committee on Source Terms  
**\$79.00**, softcover, 470 pages | ID: 690082 (1984)
- Current Issues in Nuclear Energy: Nuclear Production of Hydrogen  
**\$26.00**, booklet, 140 pages | ID: 690064 (2004)
- Current Issues in Nuclear Energy: Nuclear Non-Proliferation  
**\$21.00**, booklet, 115 pages | ID: 690063 (2003)
- Current Issues in Nuclear Energy: Nuclear Power and the Environment  
**\$16.00**, booklet, 57 pages | ID: 690058 (2002)
- Current Issues in Nuclear Energy: Radioactive Waste  
**\$16.00**, booklet, 82 pages | ID: 690059 (2002)
- A Brighter Tomorrow: Fulfilling the Promise of Nuclear Energy  
Senator Pete V. Domenici  
**\$26.00**, hardcover, 271 pages | ID: 690074 (2004)
- The Best of Bill Minkler  
Bill Minkler  
**\$3.95**, softcover, 276 pages | ID: 690057 (2002)

## ANS Proceedings

Proceedings are listed by conference series title and year. A list of individual proceedings follows, listed by year.

### Advances in Thermal Hydraulics (ATH)

2016, **\$200**  
2014, **\$250**  
2012, **\$125**

### Advances in Nuclear Fuel Management (ANFM)

2015, **\$195**  
2009, **\$195**  
2003, **\$165**  
1997, **\$130**  
1986, **\$66**

### Conference on Nuclear Training and Education (CONTE)

2017, **\$225**  
2015, **\$225**  
2013, **\$225**  
2011, **\$200**  
2009, **\$180**  
2007, **\$85**

### International High-Level Radioactive Waste Management (IHLRWMC)

2017, **\$225**  
2015, **\$220**  
2013, **\$220**  
2011, **\$200**  
2008, **\$175**  
2006, **\$165**  
2003, **\$165**  
2001, **\$120**  
1998, **\$117**  
1996, **\$104**  
1995, **\$143**

1994, **\$390**  
1993, **\$358**  
1992, **\$374**  
1991, **\$228**  
1990, **\$175**  
1985 (Disposal), **\$75**

### Decommissioning and Remote Systems (D&RS)

2016, **\$200**  
2014, **\$200**

### Mathematics & Computational Methods (M&C)

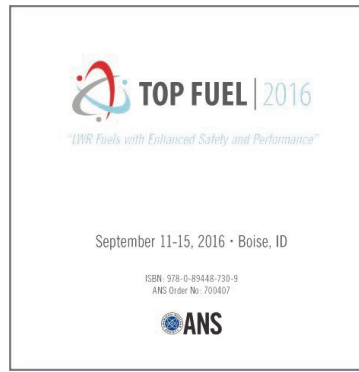
2015 (+SNA+MC), **\$225**  
2013, **\$220**  
2009, **\$225**  
2007 (+SNA), **\$225**  
2003, **\$125**  
2001, **\$150**  
1997 (+SNA), **\$195**  
1995, **\$143**  
1991 (+PHYSOR), **\$225**  
1987, **\$115**  
1979, **\$55**

### Nuclear Plant Implementation, Control, and Human-Machine Interface Technologies (NPIC & HMIT)

2017, **\$250**  
2015, **\$225**  
2012, **\$210**  
2010, **\$230**  
2009, **\$180**  
2006, **\$200**  
2004, **\$180**  
2000, **\$165**  
1996, **\$228**  
1993, **\$100**

### Nuclear Reactor Thermal Hydraulics (NURETH)

2015, **\$500**  
2007, **\$225**  
1999, **\$125**  
1992, **\$286**



1984, **\$86**  
1983, **\$40**  
1980, **\$40**

### Probability Safety Assessment and Analysis (PSA)

2015, **\$200**  
2013, **\$200**  
2011, **\$200**  
2008, **\$175**  
2002, **\$175**  
1999, **\$220**  
1996, **\$260**  
1993, **\$215**  
1989, **\$140**  
1981, **\$110**

### International Congress on Advances in Nuclear Power Plants (ICAPP)

2016, **\$225**  
2014, **\$220**  
2012, **\$225**  
2010, **\$210**  
2008, **\$175**  
2006, **\$165**  
2004, **\$140**  
2003, **\$180**  
2002, **\$150**

### Radiation Protection and Shielding

2014, **\$200**  
2006, **\$165**  
2002, **\$130**  
1998, **\$163**  
1996, **\$143**  
1994, **\$157**  
1992, **\$122**  
1989 (Advances in Nuclear Engineering Computation), **\$110**  
1984 (+PHYSOR), **\$81**  
1980 (+PHYSOR), **\$49**

### Technology of Fusion Energy

2006, **\$30**  
2002, **\$40**  
1998, **\$40**  
1996, **\$52**  
1994, **\$65**  
1980, **\$40**  
1978, **\$44**

### Global

2013, **\$220**  
2007, **\$175**  
2003, **\$140**  
1999, **\$225**  
1993, **\$157**

### Light Water Reactor Fuel Performance (TopFuel)

2016, **\$225**  
2013, **\$225**  
2010, **\$210**  
2007, **\$150**  
2004, **\$150**  
2000, **\$96**  
1997, **\$98**  
1994, **\$114**  
1991, **\$100**  
1988, **\$45**  
1985, **\$75**  
1982, **\$61**  
1978, **\$40**

### Nuclear and Emerging Technologies for Space (NETS)

2013, **\$225**  
2011, **\$180**  
2009, **\$180**  
1992 (Nuclear Technologies for Space Exploration), **\$134**

### Nuclear Criticality Safety

2015, **\$225**







2000, **\$105**  
 1999, **\$95**  
 1998, **\$117**  
 1997, **\$117**

### Environmental Degradation of Materials in Nuclear Power Systems

2009, **\$225**  
 2003, **\$165**  
 1997, **\$175**  
 1991, **\$151**  
 1985, **\$85**  
 1983, **\$81**

### Risk Management

2009 & 2003, **\$150**  
 1992, **\$65**

### Emergency Preparedness and Response

2008 (+Robotics and Remote Systems), **\$175**  
 2006 (+Robotics and Remote Systems), **\$165**  
 1999, **\$110**  
 1997, **\$104**  
 1993, **\$51**  
 1991, **\$55**

### Robotics and Remote Systems

2008 (+Emergency Preparedness and Response), **\$175**  
 2006 (+Emergency Preparedness and Response), **\$165**  
 1993, **\$157**  
 1987, **\$70**

### Facility Operations—Safeguards Interface

2008, **\$125**  
 2004, **\$100**  
 1991, **\$79**  
 1987, **\$50**



2013, **\$200**  
 2009, **\$180**  
 2005, **\$100**  
 2001, **\$80**  
 1997, **\$110**  
 1993, **\$108**  
 1991, **\$150**  
 1989 (Safety Margins in), **\$40**  
 1985 (and the Storage of Fissile Material), **\$45**

### Decommissioning, Decontamination, and Reutilization (DD&R)

2012, **\$180**  
 2010, **\$210**  
 2007, **\$175**  
 2005, **\$150**  
 1999, **\$130**  
 1997, **\$98**  
 1996, **\$78**  
 1994 (DDER), **\$85**

### Physics of Reactors (PHYSOR)

2016, **\$250**  
 2012, **\$250**  
 2010, **\$250**  
 2006, **\$195**  
 2004, **\$175**  
 2002, **\$175**  
 2000, **\$200**  
 1991 (+M&C), **\$225**  
 1988, **\$175**  
 1984 (+Shielding), **\$81**  
 1980 (+Shielding), **\$49**

### Nuclear Applications of Accelerators (AccApp)

2015, **\$200**  
 2011, **\$125**  
 2007, **\$250**  
 2003, **\$120**  
 2001, **\$120**

### Space Nuclear

2007, **\$100**  
 2005, **\$150**

### Best Estimate Methods

2004, **\$95**  
 2000, **\$90**

### DOE Spent Nuclear Fuel and Fissile Material Management

2002, **\$90**  
 2000, **\$125**  
 1998, **\$163**  
 1996, **\$117**  
 1994, **\$91**

### Spectrum

2002, **\$175**  
 2000, **\$165**  
 1998, **\$260**  
 1996, **\$325**  
 1994, **\$375**  
 1992, **\$265**  
 1990, **\$65**  
 1988, **\$75**

### Industrial Radiation and Radioisotope Measurements and Applications

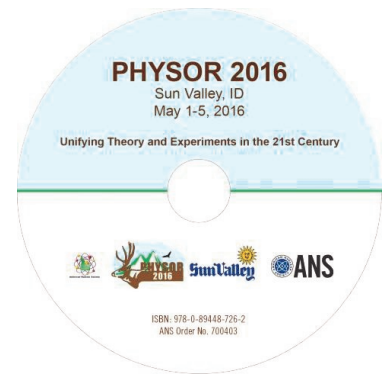
1999, **\$52**  
 1996, **\$50**

### Intersociety Energy Conversion Engineering Conference (IECEC)

1998, **\$385**  
 1992, **\$394**  
 1991, **\$275**  
 1987, **\$175**  
 1985, **\$205**  
 1982, **\$184**  
 1981, **\$190**  
 1980, **\$167**  
 1979, **\$121**  
 1978, **\$127**

### Reactor Safety

1998 (Safety of Operating Reactors), **\$117**  
 1997 (Advanced Reactor Safety), **\$130**  
 1995 (SONR), **\$143**  
 1994 (ARS), **\$157**



1986 (Thermal), **\$125**  
 1985 (Fast), **\$90**  
 1981 (Aspects of Fuel Behavior), **\$74**

### Waste Management

1999, **\$293**  
 1998, **\$293**  
 1997, **\$273**  
 1996, **\$273**  
 1995, **\$273**  
 1994, **\$273**  
 1993, **\$237**  
 1992, **\$237**  
 1991, **\$150**  
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 1988, **\$135**  
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 1986, **\$115**  
 1985, **\$87**  
 1984, **\$52**  
 1983, **\$45**  
 1982, **\$59**  
 1981, **\$40**  
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 1979, **\$40**  
 1978, **\$40**  
 1975, **\$40**

### Heat Transfer

1997, **\$59**  
 1996, **\$65**  
 1995, **\$65**  
 1993, **\$65**  
 1992, **\$65**  
 1991, **\$40**  
 1989, **\$40**  
 1988, **\$45**  
 1987, **\$40**  
 1985, **\$75**

## FOCUS

- 1995, **\$98**
- 1993, **\$86**
- 1991, **\$79**
- 1989, **\$90**

## Nuclear Thermal Hydraulics

- 1995, **\$59**
- 1994, **\$57**
- 1993, **\$57**
- 1992, **\$57**
- 1991, **\$40**
- 1990, **\$40**
- 1989, **\$40**
- 1988, **\$40**
- 1987, **\$40**
- 1985, **\$105**
- 1984, **\$43**
- 1983, **\$110**

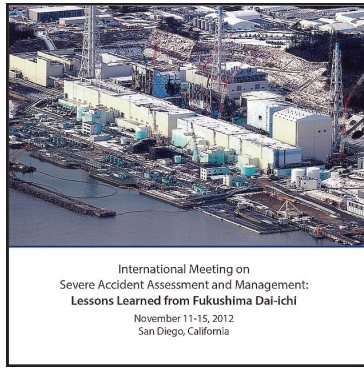
## ANS/ASME

- 1992 (Nuclear Energy Conf.), **\$86**
- 1986 (Nuclear Power Conf.), **\$65**

## Individual Proceedings

### 2010s

- High Temperature Reactor Technology (HTR), 2016, **\$225**
- Advances in Nuclear Nonproliferation Technology and Policy Conference, 2016, **\$250**
- Eighth Conference on Isotopes, 2014, **\$45**
- Plutonium Futures, 2014, **\$200**
- Lessons Learned From Fukushima Dai-Ichi, 2012, **\$273**
- Emergency Management and Robotics for Hazardous Environments (EPRRS), 2011, **\$185**
- Plutonium Futures, 2010, **\$150**



### 2000s

- Monte Carlo, 2005, **\$150**
- Operating Nuclear Facility Safety, 2004, **\$80**
- Pacific Basin, 2004, **\$140**
- Inertial Fusion Sciences and Applications, 2003, **\$160**
- Safety Analysis Working Group, 2001, **\$100**
- Radiation Protection for Our National Priorities, 2000, **\$145**

### 1990s

- Physics of Nuclear Science and Technology, 1998, **\$156**
- Risk-Based Performance Assessment and Decision Making, 1998, **\$104**
- Best of D&D, 1996, **\$63**
- Computer-Based Human Support Systems, 1995, **\$104**
- Physics, Safety, and Applications of Pulse Reactors, 1994, **\$65**
- Nuclear Data for Science and Technology, 1994, **\$169**
- Environmental Transport and Dosimetry, 1993, **\$65**
- Reactor Operations, 1993, **\$100**
- AI Frontiers in Innovative Computing for the Nuclear Industry, 1991, **\$100**
- Next Generation of Nuclear Power Plants, 1991, **\$45**
- Nuclear Power Plant and Facility Maintenance, 1991, **\$100**
- Plant License Renewal, 1991, **\$45**
- Reactor Operating Experience, 1991, **\$79**
- Safety of Thermal Reactors, 1991, **\$85**
- A Decade of LMR—Progress and Promise, 1990, **\$40**
- Advances in Human Factors Research, 1990, **\$90**
- Fast Reactor Safety, 1990, **\$150**
- Material Management and Spare Parts Issues, 1990, **\$75**

- Nuclear Power Engineering in Space, 1990, **\$40**
- Safety, Status and Future of Non-Commercial Reactors and Irradiation Facilities, 1990, **\$0**

### 1980s

- Nuclear Power Plant Life Extension, 1988, **\$75**
- Safety of Next Generation Power Reactors, 1988, **\$95**
- Anticipated and Abnormal Transients in Nuclear Power Plants, 1987, **\$100**
- Fast Breeder Systems: Experience Gained and the Path to Economical Power Generation, 1987, **\$120**
- First ANS Regional Conference, 1987, **\$40**
- Advances in Human Factors in Nuclear Power Systems, 1986, **\$60**
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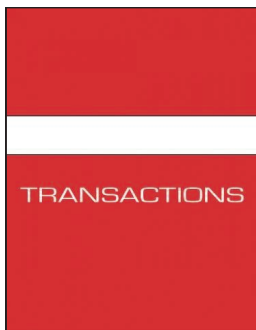
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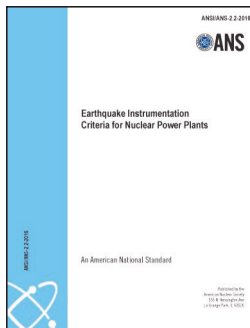
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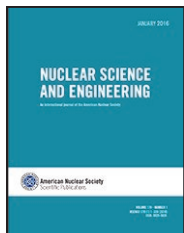


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