

Nuclear Chemical Engineering Mcgraw Hill Series In Nuclear Engineering

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Explore the fundamentals and advanced concepts of Nuclear Chemical Engineering with this comprehensive resource from the McGraw-Hill Series in Nuclear Engineering. This book delves into the intersection of nuclear science and chemical engineering principles, covering topics such as reactor design, radioactive material processing, and nuclear fuel cycle management. Ideal for students and professionals seeking a deep understanding of this specialized field, it provides a strong foundation for tackling complex challenges in nuclear energy and related industries.

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Nuclear Chemical Engineering

Additional Contributors Are John R. Dunning, Gioacchino Failla, Alfred M. Freudenthal, And Others.

Nuclear Chemical Engineering

The guidebook provides recommendations, based on the experience of both developed and developing countries, for upgrading or establishing national education and training capabilities in engineering and science in order to develop qualified personnel for nuclear power programmes. Special consideration has been given to the specific needs and conditions of developing countries.

Nuclear Engineering

Engineering Separations Unit Operations for Nuclear Processing provides insight into the fundamentals of separations in nuclear materials processing not covered in typical texts. This book integrates fuel cycle and waste processing into a single, coherent approach, demonstrating that the principles from one field can and should be applied to the other. It provides historical perspectives on nuclear materials processing, current assessment and challenges, and how past challenges were overcome. It also provides understanding of the engineering principles associated with handling nuclear materials. This book is aimed at researchers, graduate students, and professionals in the fields of chemical engineering, mechanical engineering, nuclear engineering, and materials engineering.

Introduction to Nuclear Engineering

This bibliography contains 480 annotated references to AEC reports and to the open literature. A list of pertinent bibliographies, an author index, and a report number index with availability information are also included.

Nuclear Engineering

Fundamental of Nuclear Engineering is derived from over 25 years of teaching undergraduate and graduate courses on nuclear engineering. The material has been extensively class tested and provides the most comprehensive textbook and reference on the fundamentals of nuclear engineering. It includes a broad range of important areas in the nuclear engineering field; nuclear and atomic theory; nuclear reactor physics, design, control/dynamics, safety and thermal-hydraulics; nuclear fuel engineering; and health physics/radiation protection. It also includes the latest information that is missing in traditional texts, such as space radiation. The aim of the book is to provide a source for upper level undergraduate and graduate students studying nuclear engineering.

Nuclear Engineering

Corrosion in nuclear power plants cause reductions in efficiency and increases in deposit build-up on plant surfaces, making for expensive maintenance and potential radiological health hazards. This book guides studies to predict and minimize corrosion, thus making nuclear power safer and more cost effective. Too often, reliance on empirical models and on-site testing of existing plants makes study and prediction of corrosive effects in nuclear reactors into a pricey and lengthy process. Introducing the experimental procedures, set up, sample preparation and computer modeling suggested in this book will save precious time and resources in a field where the significant time and expense to get and keep plants on-line are two of the chief concerns preventing broader commercial viability. * The only book to focus exclusively on preventing nuclear corrosion * Uses computer modelling to tie together chemical engineering, civil engineering, corrosion science, and nuclear engineering into a cohesive solution to a vexing nuclear problem * Includes all fundamental equations, example data sets and experimental techniques

Engineering and Science Education for Nuclear Power

Fundamentals of Nuclear Science and Engineering, Third Edition, presents the nuclear science concepts needed to understand and quantify the whole range of nuclear phenomena. Noted for its accessible level and approach, the Third Edition of this long-time bestselling textbook provides overviews of nuclear physics, nuclear power, medicine, propulsion, and radiation detection. Its flexible organization allows for use with Nuclear Engineering majors and those in other disciplines. The Third Edition features updated coverage of the newest nuclear reactor designs, fusion reactors, radiation health risks, and expanded discussion of basic reactor physics with added examples. A complete Solutions Manual and figure slides for classroom projection are available for instructors adopting the text.

Engineering Separations Unit Operations for Nuclear Processing

Nuclear Power Engineering