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Thermal Hydraulics and Effects of Nuclear Steam Generators and Heat Exchangers

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Nonlinear Fracture Mechanics: Time-dependent fracture

Presented at the Winter Annual Meeting of the American Society of Mechanical Engineers, Miami Beach, Florida, November 17-22, 1985

Steam Generator Group Project

Control Techniques for Nitrogen Oxides Emissions from Stationary Sources

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SAWYER COOK

Thermal Hydraulics and Effects of Nuclear Steam Generators and Heat Exchangers Elsevier

There are 27 articles, containing over 600 tables and 2,400 illustrations on specific metals and alloys. You'll find details on the effects of alloying additions and heat treatment on corrosion resistance, plus data on protective coatings, anodic/cathodic protection and design considerations. Seven major sections: Fundamentals of Corrosion Forms of Corrosion Corrosion Testing and Evaluation Designing to Minimize Corrosion Corrosion Protection Methods Corrosion of Specific Alloy Systems Corrosion in Specific Industries and Environments.

WRC Bulletin John Wiley & Sons

Careful organization and empirical correlations help clarify the prodigious technical information presented in this useful reference. Key Features * Written for practicing engineers, this comprehensive book supplies an overall framework of the combustion process; It connects information on specific reactions and reaction sequences with current applications and hardware; Each major group of combustion solids is evaluated; Among the many topics covered are: * Various biomass forms * The coalification process * Grate, kiln, and suspension firing * Fluidized bed combustion * Gasification of solids * The manufacturing process

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International Conference on Environmental Degradation of Materials in Nuclear Power Systems - Water Reactors

Materials in a nuclear environment are exposed to extreme conditions of radiation, temperature and/or corrosion, and in many cases the combination of these makes the material behavior very different from conventional materials. This is evident for the four major technological challenges the nuclear technology domain is facing currently: (i) long-term operation of existing Generation II nuclear power plants, (ii) the design of the next generation reactors (Generation IV), (iii) the construction of the ITER fusion reactor in Cadarache (France), (iv) and the intermediate and final disposal of nuclear waste. In order to address these challenges, engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand the underlying processes affecting changes in their behavior, in order to assess their performance and to determine the limits of operation. Comprehensive Nuclear Materials 2e provides broad ranging, validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion reactor systems. Attention is given to the fundamental scientific aspects of nuclear materials: fuel and structural materials for fission reactors, waste materials, and materials for fusion reactors. The articles are written at a level that allows undergraduate students to understand the material, while providing active researchers with a ready reference resource of information. Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material. During the ten years between the two editions, the challenge for applications of nuclear materials has been significantly impacted by world events, public awareness, and technological innovation. Materials play a key role as enablers of new technologies, and we trust that this new edition of

Comprehensive Nuclear Materials has captured the key recent developments. Critically reviews the major classes and functions of materials, supporting the selection, assessment, validation and engineering of materials in extreme nuclear environments Comprehensive resource for up-to-date and authoritative information which is not always available elsewhere, even in journals Provides an in-depth treatment of materials modeling and simulation, with a specific focus on nuclear issues Serves as an excellent entry point for students and researchers new to the field

[Nuclear Safety](#) Springer

This 15th Edition of the International Conference on Materials Degradation in Light Water Reactors focuses on subject areas critical to the safe and efficient running of nuclear reactor systems through the exchange and discussion of research results as well as field operating and management experience.

Corrosion Inspection and Monitoring Springer Science & Business Media

In recent years the effort devoted to assuring both the safety and reliability of commercial nuclear fission power reactors has markedly increased. The incentives for performing this work are large since the resulting improvement in plant productivity translates into lower fuel costs and, more importantly, reduced reliance on imported oil. Reliability and availability of nuclear power plants, whether fission or fusion, demand that more attention be focused on the behavior of materials. Recent experiences with fission power indicate that the basic properties of materials, which categorize their reliable behavior under specified conditions, need reinforcement to assure trouble-free operation for the expected service life. The pursuit of additional information continues to demand a better understanding of some of the observed anomalous behavior, and of the margin of resistance of materials to unpredictable service conditions. It is also apparent that, next to plasma heating and confinement, materials selection represents the most serious challenge to the introduction of fusion power. The recognition of the importance of materials performance to nuclear plant performance has sustained a multimillion dollar worldwide research and development effort that has yielded significant results, both in quantification of the performance limits of materials in current use and the development and qualification of new materials. Most of this information appears in the open literature in the form of research reports, journal articles, and conference proceedings.

Energy Information Abstracts Asm International

This Second Edition of the well-received work on design, construction, and operation of heat exchangers. Demonstrates how to apply theories of fluid mechanics and heat transfer to practical problems posed by design, testing, and installation of heat exchangers. Tables and data have been brought up to date, and there is new material on problems of vibration and fouling, and on optimization of energy use in the chemical process and manufacturing industries. Covers all basic principles of heat exchanger design, and addresses many specialized situations encountered in engineering applications.

Winter Annual Meeting ASTM International

The comprehensive reference on modern techniques and methods for monitoring and inspecting corrosion Strategic corrosion inspection and

monitoring can improve asset management and life cycle assessment and optimize operational budgets. Advances in computer technologies and electronics have led to very efficient tools for monitoring and inspecting corrosion, including impedance spectroscopy, electrical field signatures, acoustic emissions, and radiographs. This up-to-date reference explains both intrusive and non-intrusive methods of measuring corrosion rates. It covers: The impact of corrosion on the economy and the safe operation of systems in diverse operational environments The various forms of corrosion, with a focus on the detectability of corrosion damage in the real world The principles of risk-based inspection and various risk assessment methodologies (HAZOP, FMECA, FTA, and ETA), with examples from industry The monitoring of microbiologically induced corrosion (MIC), cathodic protection (CP) systems, and atmospheric corrosion Non-destructive evaluation (NDE) techniques, including visual, ultrasonic, radiographic, electromagnetic, and thermographic inspection Roadmaps used by various industries and organizations for carrying out complex inspection and monitoring schedules Complete with graphics and illustrations, this is the definitive reference for professionals involved in the maintenance of industrial systems and structures, from oil exploration to chemical plants and infrastructures; consultants; property managers; and civil, materials, and construction engineers.

NTIS Alert John Wiley & Sons

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Library & Information Sciences Academic Press

Contains final reports from projects sponsored by the Welding Research Council, important papers presented before engineering societies and other reports of current interest.

[Fossil Energy Update](#)

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