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Ni-Based Superalloys Elsevier

Modern gas turbine power plants represent one of the most efficient and economic conventional power generation technologies suitable for large-scale and smaller scale applications. Alongside this, gas turbine systems operate with low emissions and are more flexible in their operational characteristics than other large-scale generation units such as steam cycle plants. Gas turbines are unrivalled in their superior power density (power-to-weight) and are thus the prime choice for industrial applications where size and weight matter the most. Developments in the field look to improve on this performance, aiming at higher efficiency generation, lower emission systems and more fuel-flexible operation to utilise lower-grade gases, liquid fuels, and gasified solid fuels/biomass. Modern gas turbine systems provides a comprehensive review of gas turbine science and engineering. The first part of the book provides an overview of gas turbine types, applications and cycles. Part two moves on to explore major components of modern gas turbine systems including compressors, combustors and turbogenerators. Finally, the operation and maintenance of modern gas turbine systems is discussed in part three. The section includes chapters on performance issues and modelling, the maintenance and repair of components and fuel flexibility. Modern gas turbine systems is a technical resource for power plant operators, industrial engineers working with gas turbine power plants and researchers, scientists and students interested in the field. Provides a comprehensive review of gas turbine systems and fundamentals of a cycle Examines the major components of modern systems, including compressors, combustors and turbines Discusses the operation and maintenance of component parts

Transactions of the American Foundrymen's Society BoD – Books on Demand

Proceedings of the 8th International

Symposium on Superalloy 718 and DerivativesJohn Wiley & Sons8th International Symposium on Superalloy 718 and Derivates 20148th International Symposium on Superalloy 718 and DerivativesProceedings of the 9th International Symposium on Superalloy 718 & Derivatives: Energy, Aerospace, and Industrial ApplicationsSpringer

5th FORUM ON NEW MATERIALS

Proceedings of the 8th International Symposium on Superalloy 718 and Derivatives This book consists of ten chapters which outline a wide range of technologies from first-principle calculations to continuum mechanics, with applications to materials design and development. Written with a clear exposition, this book will be invaluable for engineers who want to learn about the modern technologies and techniques utilized in materials design.

Meetings on Atomic Energy Trans Tech Publications Ltd

The 49 peer-reviewed papers collected here together offer a plenitude of up-to-date information on Advanced Fossil Fuel Energy Technologies, Hydrogen Production and Storage, Fuel Cells, Electrochemical Energy Storage Systems . The papers are conveniently arranged into MATERIALS FOR ADVANCED FOSSIL FUEL ENERGY TECHNOLOGIES, MATERIALS IN HYDROGEN PRODUCTION AND STORAGE, Hydrogen Production, Hydrogen Storage, FUEL CELLS: MATERIALS AND TECHNOLOGY CHALLENGES, MATERIALS IN ELECTROCHEMICAL ENERGY STORAGE SYSTEMS.

8th International Symposium on Superalloy 718 and Derivatives Springer

Aggregated Book

Computational Materials Design CRC Press

Proceedings from: EPRI's 9th International Conference on Advances in Materials Technology for Fossil Power Plants and the 2nd International 123HiMAT Conference on High-Temperature Materials

Publications of the Division of Mechanical Engineering and the National Aeronautical Establishment Springer Nature

Volume is indexed by Thomson Reuters CPCI-S (WoS). This compilation of 423 peer-reviewed papers is divided into chapters: Supermolecular Chemistry and Crystal Engineering; Polymer Chemistry; Physical Chemistry of Solid Surface and Catalysis; Electrochemistry; Inorganic Materials; Chiral Catalysis and Organic Synthesis; Food Chemistry; Food Flavor Chemistry and Food Sensory Science; Theoretical and Computational Chemistry; Chemical Biology and Medicinal Chemistry; Analytical Chemistry and Environmental Chemistry. The contents will interest a wide range of researchers in many fields of chemistry.

High-Entropy Alloys Springer

The 14th International Symposium on Superalloys (Superalloys 2020) highlights technologies for lifecycle improvement of superalloys. In addition to the traditional focus areas of alloy development, processing, mechanical behavior, coatings, and environmental effects, this volume includes contributions from academia, supply chain, and product-user members of the superalloy community that highlight technologies that contribute to improving manufacturability, affordability, life prediction, and performance of superalloys.

Materials Performance Trans Tech Publications Ltd

This volume originates from the 2002 8th International Advanced Packaging Materials Symposium and covers topics including: bending of bare fibres; bare fibre

under the combined action of bending and tension; polymer coated fibres; and solder materials and joints.

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PRICM-8 features the most prominent and largest-scale interactions in advanced materials and processing in the Pacific Rim region. The conference is unique in its intrinsic nature and architecture which crosses many traditional discipline and cultural boundaries. This is a comprehensive collection of papers from the 15 symposia presented at this event.

Proceedings of the 9th International Symposium on Superalloy 718 & Derivatives: Energy, Aerospace, and Industrial Applications John Wiley & Sons

This book provides a systematic and comprehensive description of high-entropy alloys (HEAs). The authors summarize key properties of HEAs from the perspective of both fundamental understanding and applications, which are supported by in-depth analyses. The book also contains computational modeling in tackling HEAs, which help elucidate the formation mechanisms and properties of HEAs from various length and time scales.

Advances in Chemistry Research II ASM International

High-entropy alloys (HEAs) are a new class of materials attracting attention from researchers all over the world. This book provides a comprehensive overview of the research on HEAs, as well as discusses the mechanical, physical, and chemical properties of new HEAs and their potential applications. Chapters cover such topics as HEA superconductors, HEA composites, high-entropy superalloys, artificial intelligence in HEA design, and more.

Quarterly Bulletin of the Division of Mechanical Engineering and the National Aeronautical Establishment Woodhead Pub Limited

Superalloy, or high-performance alloy, is an alloy that exhibits several key characteristics: excellent mechanical strength, resistance to thermal creep deformation, good surface stability, and resistance to corrosion or oxidation. The crystal structure is typically face-centered cubic austenitic. Superalloy development has relied heavily on both chemical and process innovations. Superalloys develop high temperature strength through solid solution strengthening. An important strengthening mechanism is precipitation strengthening which forms secondary phase precipitates such as gamma prime and carbides. Oxidation or corrosion resistance is provided by elements such as aluminium and chromium. This book collects new developments about superalloys.

Proceedings of the 8th Pacific Rim International Conference on Advanced Materials and Processing (PRICM-8) BoD – Books on Demand

Proceedings of the fourth international Charles Parsons turbine conference held in November 1997. Papers cover the design, development, performance and operational experience of steam, gas and other types of turbines as well as the selection and properties of the wide range of materials used in their construction.

Modern Gas Turbine Systems Tms

The more than 80 papers in this proceedings volume include contributions from USA, UK, Europe, Japan and South Korea. The papers cover Steam Plant Technology (Steam Turbines; Steam generators; Materials, Processing, Properties and Microstructures; Plant Life Management), Gas Turbine Technology (Industrial Gas Turbines;Aerospace Gas Turbines;Materials and Processing;Life Management and Defect Tolerance) and Renewables.

Paper Trans Tech Publications Ltd

These papers describe past alloy design experiences and state-of-the-art methodologies and first-principle, neural network, combinational, phase-field, thermodynamic, and regression-based alloy design.

CIM Bulletin Springer

This technical meeting will focus on Alloy 718 and Superalloys in this class relative to alloy and process development, production, product applications, trends and the development of advanced modeling tools. The symposium

provides an opportunity for authors to present technical advancements relative to a broad spectrum of areas while assessing their impact on related fields associated with this critical alloy group. There are continuing innovations relative to these alloys as well as novel processing techniques which continue to extend applications in very challenging environments ranging from corrosion resistance in the deep sea to high-stressed space applications.
Materials World Maney Pub

Superalloys Institute of Electrical & Electronics Engineers(IEEE)

Books and Pamphlets, Including Serials and Contributions to Periodicals Tms