

Refractory Alloying Elements in Superalloys

Advanced Technology for Aircraft & Commercial Engines

Edited by David R. Hall and Robert Ruckenstein

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Refractory Alloying Elements In Superalloys

Joseph R. Davis



Refractory Alloying Elements In Superalloys:

Refractory Alloying Elements in Superalloys John K. Tien, Steven Reichman, American Society for Metals, 1984

Superalloys 2012 Eric S. Huron, Roger C. Reed, Mark C. Hardy, Michael J. Mills, Rick E. Montero, Pedro Dolabella Portella, Jack Telesman, 2012-10-02 A superalloy or high performance alloy is an alloy that exhibits excellent mechanical strength at high temperatures Superalloy development has been driven primarily by the aerospace and power industries This compilation of papers from the Twelfth International Symposium on Superalloys held from September 9 13 2012 offers the most recent technical information on this class of materials

Refractory Alloying Elements in Superalloys Associação Brasileira de Metais, American Society for Metals, 1984

Superalloys, Supercomposites and Superceramics John K Tien, 2012-12-02 Superalloys Supercomposites and Superceramics reviews the state of superalloy technology and some of the more salient aspects of alternative high temperature systems such as superceramics and supercomposites Superalloy topics range from resource availability to advanced processing such as VIM VAR and VADAR along with investment casting and single crystal growth new superplastic forming techniques and powder metallurgy structure property relationships strengthening mechanisms oxidation hydrogen embrittlement and phase predictions This book is comprised of 22 chapters that explore key issues of high temperature materials in a synergistic manner The first chapter reflects on the growth of the superalloy industry and its technology over the past 40 years The discussion then turns to some of the trends in superalloy development focusing on what is understood to be meant by the term strategic materials and the current status of resources and reserves in the United States Particular attention is given to the supply sources and availability of strategic materials The results achieved from the research program undertaken by NASA Lewis Research Center named Conservation Of Strategic Aerospace Materials COSAM are also presented The chapters that follow explore alternative high temperature systems such as intermetallics fiber reinforced superalloys and the processing and high temperature properties of ceramics and carbon carbon composites This book will be a valuable resource for professionals and graduate students interested in learning about superalloys supercomposites and superceramics

The New Materials Society: New materials science and technology , 1990

Superalloys Blaine Geddes, Hugo Leon, Xiao Huang, 2010-01-01 This practical guide provides an introduction for understanding the compositional complexity of superalloys superalloy and the wide range of alloys developed for specific applications The basics of alloying strengthening mechanisms and structure of superalloys are explained in optimizing particular mechanical properties oxidation corrosion resistance and manufacturing characteristics such as castability forgeability and weldability Publisher s description

Energy Research Abstracts , 1985

New Materials Society, Challenges and Opportunities DIANE Publishing Company, 1993-07 Covers new materials technology overview advanced metals magnetic alloys superalloys powdered metals metal matrix composites advanced ceramic materials techniques advanced polymer materials description of engineering high performance polymers glossary of terms Black white

photos graphs tables The New Materials Society ,1990 **Metallurgical Coatings and Thin Films 1992** G.E. McGuire,S. Hofmann,B.D. Sartwell,2012-12-02 One of the increasingly important requirements for high technology materials is that they possess near surface properties different to their bulk properties Specific surface properties are generally achieved through the use of these films or coatings or by modifying the structure or composition of the near surface This two volume work contains 157 papers covering a wide range of topics involving films coatings and modified surfaces All aspects of the development of deposition technologies are addressed including basic research applied research applications development and full scale industrial production The work will be of interest to materials scientists physicists electronic chemical and mechanical engineers and chemists **Proceedings of the Symposium on Properties of High Temperature Alloys, with Emphasis on Environmental Effects** Z. A. Foroulis,Frederick S. Pettit,1976 **Superalloys 2024** Jonathan Cormier,Ian Edmonds,Stephane Forsik,Paraskevas Kontis,Corey O'Connell,Timothy Smith,Akane Suzuki,Sammy Tin,Jian Zhang,2024-08-20 The 15th International Symposium on Superalloys Superalloys 2024 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 Proceedings of the 10th International Symposium on Superalloy 718 and Derivatives Eric A. Ott,Joel Andersson,Chantal Sudbrack,Zhongnan Bi,Kevin Bockenstedt,Ian Dempster,Michael Fahrman,Paul Jablonski,Michael Kirka,Xingbo Liu,Daisuke Nagahama,Tim Smith,Martin Stockinger,Andrew Wessman,2023-04-20 This collection explores all aspects of metallurgical processing materials behavior and microstructural performance for the distinct class of 718 type superalloys and derivatives Technical topics focus on alloy and process development production product applications trends and the development of advanced modeling tools New developments in R D new processing methods 3D printing and other nontraditional applications also are covered High temperature alloys for gas turbines and other applications, 1986 : W. Betz,1987-12-01 Scientific and Technical Aerospace Reports ,1984 Metallic Matrix Composites Kenneth G. Kreider,2016-06-03 Composite Materials Volume 4 Metallic Matrix Components provides an in depth report and a reference on the technology of metal matrix composites The book starts by giving an introduction to metal matrix composites and by discussing the principal metal laminate fabrication methods the properties of metal laminates and materials engineering of laminated metal composites for specific applications The text also describes the technology in eutectic superalloys of nickel and cobalt nickel alloys reinforced with alpha Al₂O₃ filaments and the problems and progress encountered in developing wire reinforced superalloys The fiber reinforced titanium alloys the development of metal matrix composites reinforced with high modulus graphite fibers as well as the development the physical and mechanical properties and the engineering considerations for the use of boron aluminum are also encompassed

Materials scientists and engineers will find the book invaluable

Superalloys Nataliya V. Kazantseva, Natalia N. Stepanova, Mikhail B. Rigmant, 2018-12-07 Superalloys form a class of the structural materials for high temperature applications Nickel superalloys are extensively used in the high temperature components of gas turbines due to their excellent creep fatigue and corrosion resistance at elevated temperatures These materials are considered paramagnetic in the range of working temperatures This book presents the features of the ternary phase diagrams Ni Al X X Co Fe Nb Ti Cr effects of the alloying on the long range order and mechanical properties of the Ni₃Al based alloys Description of the strain induced ferromagnetism in the Ni₃Al based alloys and magnetic control of the failure of gas turbine blades are also included A separate section is devoted to the analysis of the vibration process and strength change in the single crystal gas turbine blades This book includes the review of the new intermetallic cobalt superalloys The structure crystal lattice parameters orientation relationships between phases mechanical and magnetic properties of the Co₃Al W based alloys are described Non destructive magnetic point control of the martensite content in low magnetic austenitic alloys is a new method for detection of the local sites with internal stresses This method is useful for the detection of the residual stress in the critical parts of industrial products This book may be useful for specialists in material science first year postgraduate students taking a class in material science and engineering and engineers developing new alloys for the gas turbine technology

Advanced Materials Ajit Behera, 2021-11-21 This book provides a thorough introduction to the essential topics in modern materials science It brings together the spectrum of materials science topics spanning inorganic and organic materials nanomaterials biomaterials and alloys within a single cohesive and comprehensive resource Synthesis and processing techniques structural and crystallographic configurations properties classifications process mechanisms applications and related numerical problems are discussed in each chapter End of chapter summaries and problems are included to deepen and reinforce the reader's comprehension Provides a cohesive and comprehensive reference on a wide range of materials and processes in modern materials science Presents material in an engaging manner to encourage innovative practices and perspectives Includes chapter summaries and problems at the end of every chapter for reinforcement of concepts

Alloying Joseph R. Davis, 2001-01-01 Alloying Understanding the Basics is a comprehensive guide to the influence of alloy additions on mechanical properties physical properties corrosion and chemical behavior and processing and manufacturing characteristics The coverage considers alloying to include any addition of an element or compound that interacts with a base metal to influence properties Thus the book addresses the beneficial effects of major alloy additions inoculants dopants grain refiners and other elements that have been deliberately added to improve performance as well the detrimental effects of minor elements or residual tramp elements included in charge materials or that result from improper melting or refining techniques The content is presented in a concise user friendly format Numerous figures and tables are provided The coverage has been weighted to provide the most detailed information on the most industrially important materials

Elements of Metallurgy and Engineering Alloys Flake C. Campbell, 2008-01-01 This practical reference provides thorough and systematic coverage on both basic metallurgy and the practical engineering aspects of metallic material selection and application

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