

ASM SPECIALTY HANDBOOK

Heat-Resistant Materials



The Materials
Information Society

Asm Speciality Handbook Heat Resistant Materials Asm

Joseph R. Davis



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ASM Specialty Handbook Joseph R. Davis, 1997-01-01 Materials covered include carbon alloy and stainless steels alloy cast irons high alloy cast steels superalloys titanium and titanium alloys refractory metals and alloys nickel chromium and nickel thoria alloys structural intermetallics structural ceramics cermets and cemented carbides and carbon composites

Springer Handbook of Condensed Matter and Materials Data Werner Martienssen, Hans Warlimont, 2006-09-21 Springer Handbook of Condensed Matter and Materials Data provides a concise compilation of data and functional relationships from the fields of solid state physics and materials in this 1200 page volume The data encapsulated in 914 tables and 1025 illustrations have been selected and extracted primarily from the extensive high quality data collection Landolt B rnststein and also from other systematic data sources and recent publications of physical and technical property data Many chapters are authored by Landolt B rnststein editors including the prominent Springer Handbook editors W Martienssen and H Warlimont themselves The Handbook is designed to be useful as a desktop reference for fast and easy retrieval of essential and reliable data in the lab or office References to more extensive data sources are also provided in the book and by interlinking to the relevant sources on the enclosed CD ROM Physicists chemists and engineers engaged in fields of solid state sciences and materials technologies in research development and application will appreciate the ready access to the key information coherently organized within this wide ranging Handbook From the reviews this is the most complete compilation I have ever seen When I received the book I immediately searched for data I never found elsewhere and I found them rapidly No doubt that this book will soon be in every library and on the desk of most solid state scientists and engineers It will never be at rest Physicalia Magazine

Handbook of Materials Selection Myer Kutz, 2002-07-22 An innovative resource for materials properties their evaluation and industrial applications The Handbook of Materials Selection provides information and insight that can be employed in any discipline or industry to exploit the full range of materials in use today metals plastics ceramics and composites This comprehensive organization of the materials selection process includes analytical approaches to materials selection and extensive information about materials available in the marketplace sources of properties data procurement and data management properties testing procedures and equipment analysis of failure modes manufacturing processes and assembly techniques and applications Throughout the handbook an international roster of contributors with a broad range of experience conveys practical knowledge about materials and illustrates in detail how they are used in a wide variety of industries With more than 100 photographs of equipment and applications as well as hundreds of graphs charts and tables the Handbook of Materials Selection is a valuable reference for practicing engineers and designers procurement and data managers as well as teachers and students

MATERIALS SCIENCE AND ENGINEERING -Volume III Rees D. Rawlings, 2009-12-05 Materials Science and Engineering theme is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is

an integrated compendium of twenty one Encyclopedias Materials Science and Engineering is concerned with the development and selection of the best possible material for a particular engineering task and the determination of the most effective method of producing the materials and the component The Theme with contributions from distinguished experts in the field discusses Materials Science and Engineering In this theme the history of materials is traced and the concept of structure atomic structure microstructure and defect structure and its relationship to properties developed The theme is structured in five main topics Materials Science and Engineering Optimization of Materials Properties Structural and Functional Materials Materials Processing and Manufacturing Technologies Detection of Defects and Assessment of Serviceability Materials of the Future which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Springer Handbook of Materials Data Hans Warlimont, Werner Martienssen, 2018-07-27 The second edition of this well received handbook is the most concise yet comprehensive compilation of materials data The chapters provide succinct descriptions and summarize essential and reliable data for various types of materials The information is amply illustrated with 900 tables and 1050 figures selected primarily from well established data collections such as Landolt B rnstein which is now part of the SpringerMaterials database The new edition of the Springer Handbook of Materials Data starts by presenting the latest CODATA recommended values of the fundamental physical constants and provides comprehensive tables of the physical and physicochemical properties of the elements 25 chapters collect and summarize the most frequently used data and relationships for numerous metals nonmetallic materials functional materials and selected special structures such as liquid crystals and nanostructured materials Along with careful updates to the content and the inclusion of timely and extensive references this second edition includes new chapters on polymers materials for solid catalysts and low dimensional semiconductors This handbook is an authoritative reference resource for engineers scientists and students engaged in the vast field of materials science

[Mechanical Engineers' Handbook, Volume 1](#) Myer Kutz, 2015-03-02 Full coverage of materials and mechanical design in engineering Mechanical Engineers Handbook Fourth Edition provides a quick guide to specialized areas you may encounter in your work giving you access to the basics of each and pointing you toward trusted resources for further reading if needed The accessible information inside offers discussions examples and analyses of the topics covered This first volume covers materials and mechanical design giving you accessible and in depth access to the most common topics you ll encounter in the discipline carbon and alloy steels stainless steels aluminum alloys copper and copper alloys titanium alloys for design nickel and its alloys magnesium and its alloys superalloys for design composite materials smart materials electronic materials viscosity measurement and much more Presents comprehensive coverage of materials and mechanical design Offers the option of being purchased as a four book set or as single books depending on

your needs Comes in a subscription format through the Wiley Online Library and in electronic and custom formats Engineers at all levels of industry government or private consulting practice will find Mechanical Engineers Handbook Volume 1 a great resource they'll turn to repeatedly as a reference on the basics of materials and mechanical design Aerospace Materials Handbook Sam Zhang, Dongliang Zhao, 2016-04-19 Whether an airplane or a space shuttle a flying machine requires advanced materials to provide a strong lightweight body and a powerful engine that functions at high temperature The Aerospace Materials Handbook examines these materials covering traditional superalloys as well as more recently developed light alloys Capturing state of the art developments in materials research for aeronautical and aerospace applications this book provides a timely reference for both newcomers and veteran researchers in the field The chapters address developments in bulk materials coatings traditional materials and new materials Beginning with an overview of superalloys including nickel nickel iron and cobalt based superalloys the text covers machining laser cladding and alloying corrosion performance high temperature oxidation thermal spraying and nanostructured coatings It also includes four categories of composites used in aerospace metal matrix polymer carbon nanotube reinforced polymer and self healing composites The text describes preparation processing and fatigue of lightweight magnesium alloys as well as an exciting new class of materials aerogels This book brings readers to the cutting edge of research in materials for aerospace and aeronautics It provides an entry point into this field and presents details to stimulate future research This unique up to date resource offers knowledge to enable practitioners to develop faster more efficient and more reliable air and spacecraft *Springer Handbook of Mechanical Engineering* Karl-Heinrich Grote, Hamid Hefazi, 2021-04-10 This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems Each subject is discussed in detail and supported by numerous figures and tables High Temperature Materials and Mechanisms Yoseph Bar-Cohen, 2014-03-03 The use of high temperature materials in current and future applications including silicone materials for handling hot foods and metal alloys for developing high speed aircraft and spacecraft systems has generated a growing interest in high temperature technologies High Temperature Materials and Mechanisms explores a broad range of issues related to high temperature materials and mechanisms that operate in harsh conditions While some applications involve the use of materials at high temperatures others require materials processed at high temperatures for use at room temperature High temperature materials must also be resistant to related causes of damage such as oxidation and corrosion which are accelerated with increased temperatures This book examines high temperature materials and mechanisms from many angles It covers the topics of processes materials characterization methods and the nondestructive evaluation and health monitoring of high temperature materials and structures It describes the application of high temperature materials to actuators and sensors sensor design challenges

as well as various high temperature materials and mechanisms applications and challenges Utilizing the knowledge of experts in the field the book considers the multidisciplinary nature of high temperature materials and mechanisms and covers technology related to several areas including energy space aerospace electronics and metallurgy Supplies extensive references at the end of each chapter to enhance further study Addresses related science and engineering disciplines Includes information on drills actuators sensors and more A comprehensive resource of information consolidated in one book this text greatly benefits students in materials science aerospace and mechanical engineering and physics It is also an ideal resource for professionals in the industry

Nickel, Cobalt, and Their Alloys Joseph R. Davis, 2000-01-01 This book is a comprehensive guide to the compositions properties processing performance and applications of nickel cobalt and their alloys It includes all of the essential information contained in the ASM Handbook series as well as new or updated coverage in many areas in the nickel cobalt and related industries

Anniversary Feature Papers Steven Y. Liang, 2021-04-15 The Journal of Manufacturing and Materials Processing JMMP aims to provide an international forum for the documentation and dissemination of recent original and significant research studies in the analysis of processes equipment systems and materials related to material heat treatment solidification deformation addition removal welding and accretion for the industrial fabrication and production of parts components and products The JMMP was established in 2017 and has published more than 300 contributions It has been listed in the ESCI Inspec IET and Scopus Elsevier In celebration of the anniversary of the JMMP the Editorial Office has put together this Special Issue which includes several representative papers that reflect the vibrant growth and dynamic trend of research in this field

IUTAM Symposium on Field Analyses for Determination of Material Parameters — Experimental and Numerical Aspects P. Ståhle, K.G. Sundin, 2003-04-30 Proceedings of the IUTAM Symposium held in Abisko National Park Kiruna Sweden July 31 August 4 2000

Aerospace Materials and Material Technologies N. Eswara Prasad, R.J.H. Wanhill, 2016-11-07 This book serves as a comprehensive resource on various traditional advanced and futuristic material technologies for aerospace applications encompassing nearly 20 major areas Each of the chapters addresses scientific principles behind processing and production production details equipment and facilities for industrial production and finally aerospace application areas of these material technologies The chapters are authored by pioneers of industrial aerospace material technologies This book has a well planned layout in 4 parts The first part deals with primary metal and material processing including nano manufacturing The second part deals with materials characterization and testing methodologies and technologies The third part addresses structural design Finally several advanced material technologies are covered in the fourth part Some key advanced topics such as Structural Design by ASIP Damage Mechanics Based Life Prediction and Extension and Principles of Structural Health Monitoring are dealt with at equal length as the traditional aerospace materials technology topics This book will be useful to students researchers and professionals working in the domain of aerospace materials

Failure Mechanisms in Alloys George A.

Pantazopoulos,2020-03-19 The era of lean production and excellence in manufacturing advancing with sustainable development demands the rational utilization of raw materials and energy resources adopting cleaner and environmentally friendly industrial processes In view of the new industrial revolution through digital transformation the exploitation of smart and sophisticated materials systems the need of minimizing scrap and increasing efficiency reliability and lifetime and on the other hand the pursuit of fuel economy and limitation of carbon footprint are necessary conditions for the imminent growth in a highly competitive economy Failure analysis is an interdisciplinary scientific topic reflecting the opinions and interpretations coming from a systematic evidence gathering procedure embracing various important sectors imparting knowledge and substantiating improvement practices The deep understanding of material component role e g rotating shaft extrusion die gas pipeline and properties will be of central importance for fitness for purpose in certain industrial processes and applications Finally it is hoped and strongly believed that the accumulation of additional knowledge in the field of failure mechanisms and the adoption of the principles philosophy and deep understanding of failure analysis process approach will strongly promote the learning concept as a continuously evolving process leading to personal and social progress and prosperity

Oxide Dispersion Strengthened Refractory Alloys Anshuman Patra,2022-05-12 Refractory metals such as W Mo Ta Nb and Re have immense potential for application in plasma facing materials in nuclear reactors defense materials aviation counterweights heating elements in furnaces and so forth This book presents a wide perspective of oxide dispersion strengthened refractory alloys fabrication and critical properties It provides a comprehensive road map for an appropriate basis for alloy design process parameter selection fabrication route and deformation behavior for oxide dispersion strengthened refractory alloys It further covers achievement of application oriented properties and critical process regulating parameters for development of sustainable materials Features Covers development of oxide dispersion strengthened sustainable material to withstand high temperature environments Describes stimulating application oriented final mechanical properties Illustrates fabrication of alloys through effective route to achieve desired properties Presents in depth explanation of deformation behavior at ambient and high temperatures Explores critical applications of the alloys in nuclear reactors defense and aviation sectors Oxide Dispersion Strengthened Refractory Alloys will be of interest to graduate students and researchers in high temperature materials mechanics metallurgy powder metallurgy and physical metallurgy

Performance of MCrAlX coatings Pimin Zhang,2019-11-04 MCrAlY coatings M Ni and or Co are widely used for the protection of superalloy components against oxidation and hot corrosion in the hot sections of gas turbines The drive for coating systems to bestow adequate oxidation and corrosion resistance upon the components becomes urgent as an inevitable result of the necessary improvement in engine combustion efficiency and service lifetime Through the careful design of the composition MCrAlY coating performance can be optimized to meet the needs under different service conditions and component materials therefore MCrAlX with X stands for the minor alloying elements is used to highlight the

effect In the present thesis the performance of new MCrAlX coatings is investigated with respect to oxidation hot corrosion and interactions between coating superalloy substrates Oxidation of MCrAlX coatings can be generally categorized into initial steady and close to end stages Coating performance can be affected by various factors at different stages therefore experiments were designed by targeting the oxidation stages Investigation on the initial stage oxidation behavior of MCrAlY coatings with post deposition surface treatments reveals the different growth mechanisms of alumina scales Surface treatments significantly reduce the alumina growth rate by suppressing transient alumina development and aiding the early formation of Al_2O_3 which improves the long term oxidation performance of the coating Similarly the modification of minor alloy elements in MCrAlX coatings also serves the purpose The oxidation behavior of new MCrAlX coatings was investigated at the steady oxidation stage followed by the microstructure observation thermodynamic and kinetic simulations As an alternative reactive element addition of Y Ce shows a negative effect on the formation of columnar alumina scales of high strain tolerance In comparison Fe or Ru addition shows no influence on alumina growth rather than strengthening the phase stability in the coating and reducing the interdiffusion between coating substrate through different mechanisms As the oxidation proceeds to the close to end stage a reliable criterion to estimate the capability of coating to form Al_2O_3 is of great importance to accurately evaluate coating lifetime A temperature dependent critical Al activity criterion was proposed to better predict the formation of a continuous Al_2O_3 scale based on correction of elemental activity using thermodynamic database to replace the empirical Al concentration based criterion Severe interdiffusion occurs between coating substrate during high temperature oxidation accelerating the degradation of the system Interdiffusion behavior of diffusion couples of superalloys MCrAlX coatings were examined It is highlighted that the recrystallization of superficial layer of the substrate contributes to the secondary reaction zone formation and element interdiffusion controls subsequent zone thickening Study on Type I hot corrosion behavior of new MCrAlX coatings shows that the addition of Fe has no influence on basic fluxing reactions before severe Al depletion from the coating occurs Instead it boosts the effective Al supply of coating by shifting the equilibrium concentration of Al in the phase to a low Al level Besides the pre mature coating degradation at the coating substrate interface was due to the fast growth of corrosion products from substrate induced large local volume expansions resulting in early coating spallation MCrAlY ytbel ggningar M Ni och eller Co anv nds ofta f r att skydda komponenter tillverkade av superlegeringar mot oxidation samt h gtemperaturskorrosion i de heta gasturbindelarna F rb ttrad f rbr nningseffektivitet och livsl ngd hos gasturbiner g r att ytbel ggningssystemen m ste besitta adekvata oxidations och korrosionsmotst nd Genom att omsorgsfullt utforma den kemiska sammans ttningen hos MCrAlY ytbel ggningar kan deras prestanda optimeras f r att m ta kraven fr n olika driftf rh llanden samt olika substratmaterial d rf r anv nds beteckningen MCrAlX f r att belysa f r ndrningar av den kemiska kompositionen d r X st r f r reaktiva legerings mnen som tills tts i mindre m ngder I denna avhandling unders ks prestandan hos en ny MCrAlX ytbel ggning med h nsyn till oxidation h

gtemperaturskorrosion och interaktionen mellan ytbel ggningen och superlegeringssubstratet Oxidation av MCrAlX ytbel ggningar kan generellt kategoriseras i tre faser initiala stabila och n ra slutet fasen Ytbel ggningens prestanda kan p verkas av olika faktorer vid de olika faserna d rf r utformades olika experiment f r att unders ka de olika oxidationsfaserna Unders kningen av den initiala fasen av oxidationsbeteendet hos MCrAlX ytbel ggningar som genomg tt ytbehandlingar efter ytbel ggningssdeponeringen avsl jade olika tillv xtmekanismer hos aluminiumoxidskikten Aluminiumoxidens tillv xthastighet reducerades signifikant av ytbehandlingarna detta genom att undertrycka utvecklingen av verg ende aluminiumoxid och bist den tidiga tillv xten av Al_2O_3 vilket f rb ttrar ytbel ggningens oxidationsprestanda l ngsiktigt De reaktiva legerings mnena som tills tts i mindre m nger p verkar ytbel ggningens oxidationsprestanda p liknande s tt Oxidationsbeteendet hos de nya MCrAlX ytbel ggningarna i den stabila fasen f ljdes av mikrostrukturunders kning termodynamiska och kinetiska simuleringar Det framkom att Ce visar en negativ effekt p bildandet av kolumn ra aluminiumoxidskikt med h g t jningstolerans som alternativt reaktivt legerings mne till Y J mf relsevis ger Fe eller Ru tillsatser ingen p verkan p aluminiumoxidtillv xten f rutom att det f rst rker fasstabiliteten i ytbel ggningen samt genom olika mekanismer reducerar interdiffusionen mellan ytbel ggningen och substratet N r oxidationsprocessen kommit till n ra slutet fasen r det viktigt att uppskatta kapaciteten hos en ytbel ggning att bilda Al_2O_3 detta d det r ett tillf rlitligt kriterium f r att noggrant kunna utv rdera ytbel ggningens livsl ngd D rf r f reslogs ett temperaturberoende kriterium f r kritisk Al aktivitet f r att b ttre kunna f ruts ga bildandet av ett kontinuerligt Al_2O_3 skikt Kriteriet baserades p korrigering av legerings mnens aktivitet genom att anv nda en termodynamisk databas detta f r att ers tta det empiriska Al koncentrationer baserade kriteriet Vid h gtemperaturoxidation sker en omfattande interdiffusion mellan ytbel ggningen och substratet vilket accelererar degraderingen av ytbel ggningssystemet D rf r har interdiffusionsbeteendet mellan superlegeringssubstratet och MCrAlX ytbel ggningen unders kts i denna avhandling Det framkom att rekristallisationen av ytliga skikt av substratet bidrar till formationen av den sekund ra reaktionszonen och att interdiffusion kontrollerar zonens efterf ljande tjocklektillv xt Unders kningen av Typ I h gtemperaturskorrosionsbeteendet hos en ny MCrAlX ytbel ggning visar att legeringstill gg av Fe inte p verkar de grundl ggande fl desreaktionerna innan en kritisk Al utarmning sker i ytbel ggningen Ist llet stimulerar det tillf rseln av Al genom att skifta j mviktskoncentrationen av Al i fasen till en l g niv av Al Det framkom ocks att den tidiga degraderingen av ytbel ggningen vid gr nsskiktet mellan ytbel ggningen och substratet kommer av att den snabba tillv xten av korrosionsprodukter fr n substratet inducerade en stor lokal volymsutvidgning vilket ledde till tidig ytbel ggningsspallation

Principles and Applications of Tribology Bharat Bhushan, 2013-02-15 This fully updated Second Edition provides the reader with the solid understanding of tribology which is essential to engineers involved in the design of and ensuring the reliability of machine parts and systems It moves from basic theory to practice examining tribology from the integrated viewpoint of mechanical engineering mechanics and materials science It offers detailed coverage of the

mechanisms of material wear friction and all of the major lubrication techniques liquids solids and gases and examines a wide range of both traditional and state of the art applications For this edition the author has included updates on friction wear and lubrication as well as completely revised material including the latest breakthroughs in tribology at the nano and micro level and a revised introduction to nanotechnology Also included is a new chapter on the emerging field of green tribology and biomimetics

Selective Laser Melting Prashanth Konda Gokuldoss,2020-04-03 Additive manufacturing AM is one of the manufacturing processes that warrants the attention of industrialists researchers and scientists AM has the ability to fabricate materials to produce parts with complex shapes without any theoretical restrictions combined with added functionalities Selective laser melting SLM also known as laser based powder bed processing LPBF is one of the main AM process that can be used to fabricate wide variety of materials that are Al Ti Fe Ni Co W Ag and Au based etc However several challenges need to be addressed systematically such as development of new materials that suit the SLM process conditions so the process capabilities can be fully used to produce new properties in these materials Other issues in the field are the lack of microstructure property correlations premature failure etc Accordingly this Special Issue book focuses mainly on the microstructure correlation in three different alloys AlSi10Mg Ti6Al4V and 304L stainless steel where six articles are presented Hence this Special Issue outlines microstructure property correlations in the SLM processed materials and provides a value addition to the field of AM

Austenitic Stainless Steels Wojciech Borek,Tomasz Tański,Zbigniew Brytan,2017-12-20 Stainless steel is still one of the fastest growing materials Today the austenitic stainless steel with the classic composition of 18% Cr and 8% Ni grade 304L is still the most widely used by far in the world The unique characteristic of stainless steel arises from three main factors The versatility results from high corrosion resistance excellent low and high temperature properties high toughness formability and weldability The long life of stainless steels has been proven in service in a wide range of environments together with low maintenance costs compared to other highly alloyed metallic materials The retained value of stainless steel results from the high intrinsic value and easy recycling Stainless steel especially of austenitic microstructure plays a crucial role in achieving sustainable development nowadays so it is also important for further generations

Energy Conversion D. Yogi Goswami, Frank Kreith,2017-07-06 This handbook surveys the range of methods and fuel types used in generating energy for industry transportation and heating and cooling of buildings Solar wind biomass nuclear geothermal ocean and fossil fuels are discussed and compared and the thermodynamics of energy conversion is explained Appendices are provided with fully updated data Thoroughly revised this second edition surveys the latest advances in energy conversion from a wide variety of currently available energy sources It describes energy sources such as fossil fuels biomass including refuse derived biomass fuels nuclear solar radiation wind geothermal and ocean then provides the terminology and units used for each energy resource and their equivalence It includes an overview of the steam power cycles gas turbines internal combustion engines hydraulic turbines Stirling engines advanced

fossil fuel power systems and combined cycle power plants It outlines the development current use and future of nuclear power

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