

# **HANDBOOK OF REFRACTORY CARBIDES AND NITRIDES**

**Properties, Characteristics, Processing  
and Applications**



by  
**Hugh O. Pierson**

**NOYES PUBLICATIONS**

# Handbook Of Refractory Carbides Nitrides Properties Characteristics Processing And Applications

**Albano Cavaleiro, Jeff T. de Hosson**



## **Handbook Of Refractory Carbides Nitrides Properties Characteristics Processing And Applications:**

**Handbook of Refractory Carbides and Nitrides** Hugh O. Pierson, 1996-12-31 Refractory carbides and nitrides are useful materials with numerous industrial applications and a promising future in addition to being materials of great interest to the scientific community Although most of their applications are recent the refractory carbides and nitrides have been known for over one hundred years The industrial importance of the refractory carbides and nitrides is growing rapidly not only in the traditional and well established applications based on the strength and refractory nature of these materials such as cutting tools and abrasives but also in new and promising fields such as electronics and optoelectronics Handbook of Refractory Carbides and Nitrides Hugh O. Pierson, 1996 Refractory carbides and nitrides are useful materials with numerous industrial applications and a promising future in addition to being materials of great interest to the scientific community Although most of their applications are recent the refractory carbides and nitrides have been known for over one hundred years The industrial importance of the refractory carbides and nitrides is growing rapidly not only in the traditional and well established applications based on the strength and refractory nature of these materials such as cutting tools and abrasives but also in new and promising *Materials Science of Carbides, Nitrides and Borides* Yuri G. Gogotsi, R.A. Andrievski, 2012-12-06 A survey of current research on a wide range of carbide nitride and boride materials covering the general issues relevant to the development and characterisation of a variety of advanced materials Topics include structure and electronic properties modeling processing high temperature chemistry oxidation and corrosion mechanical behaviour manufacturing and applications The volume complements more specialised books on specific materials as well as more general texts on ceramics or hard materials presenting a survey of materials research as a key to technological development After decades of research the materials are being used in electronics wear resistant refractory and other applications but numerous new applications are possible Roughly equal numbers of papers cover theoretical and experimental research in the general field of materials science of refractory materials Audience Researchers and graduate students in materials science and engineering *Disorder and Order in Strongly Nonstoichiometric Compounds* A.I. Gusev, A.A. Rempel, A.J. Magerl, 2013-03-09 long to understand that the phenomena associated with the redistribution of interstitial atoms and structural vacancies in non stoichiometric compounds represent an excellent model of analogous phenomena arising in solid state systems with mutual substitution of components Therefore methods of analysis and description proposed and developed for nonstoichiometric compounds are applicable to a number of systems with substitutional disorder In 1980 when we embarked on this work ordering in nonstoichiometric compounds was assumed to be a rare and accidental effect which hardly deserved close attention Now many people understand that ordering represents a general regular phenomenon in all non stoichiometric compounds Ordering effects which were not even mentioned or were referred to as something insignificant and negligible just 20 years ago proved to be numerous and comparable in magnitude with the change of

properties in the whole homogeneity interval of non stoichiometric compounds Phase diagrams of binary systems of transition metals with carbon and nitrogen which remained unchanged from the time they were plotted in 1950 60s and containing one or two nonstoichiometric compounds were enriched with many ordered phases Unfortunately the accumulated experimental and theoretical knowledge has not so far been disseminated widely

**Materials Handbook** François Cardarelli, 2008-03-19 This unique and practical book provides quick and easy access to data on the physical and chemical properties of all classes of materials The second edition has been much expanded to include whole new families of materials while many of the existing families are broadened and refined with new material and up to date information Particular emphasis is placed on the properties of common industrial materials in each class Detailed appendices provide additional information and careful indexing and a tabular format make the data quickly accessible This book is an essential tool for any practitioner or academic working in materials or in engineering

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Advances in Science and Technology of Mn+1AX<sub>n</sub> Phases I M Low, 2012-10-26 Advances in Science and Technology of Mn 1AX<sub>n</sub> Phases presents a comprehensive review of synthesis microstructures properties ab initio calculations and applications of Mn 1AX<sub>n</sub> phases and targets the continuing research of advanced materials and ceramics An overview of the current status future directions challenges and opportunities of Mn 1AX<sub>n</sub> phases that exhibit some of the best attributes of metals and ceramics is included Students of materials science and engineering at postgraduate level will value this book as a reference source at an international level for both teaching and research in materials science and engineering In addition to students the principal audiences of this book are ceramic researchers materials scientists and engineers materials physicists and chemists The book

is also an invaluable reference for the professional materials and ceramics societies The most up to date and comprehensive research data on MAX phases is presented Written by highly knowledgeable and well respected researchers in the field Discusses new and unusual properties *Ceramics Science and Technology, Volume 2* Ralf Riedel,I-Wei Chen,2015-11-20 Although ceramics have been known to mankind literally for millennia research has never ceased Apart from the classic uses as a bulk material in pottery construction and decoration the latter half of the twentieth century saw an explosive growth of application fields such as electrical and thermal insulators wear resistant bearings surface coatings lightweight armour or aerospace materials In addition to plain hard solids modern ceramics come in many new guises such as fabrics ultrathin films microstructures and hybrid composites Built on the solid foundations laid down by the 20 volume series Materials Science and Technology Ceramics Science and Technology picks out this exciting material class and illuminates it from all sides Materials scientists engineers chemists biochemists physicists and medical researchers alike will find this work a treasure trove for a wide range of ceramics knowledge from theory and fundamentals to practical approaches and problem solutions

**Handbook of Advanced Ceramics** ,2013-04-11 This new handbook will be an essential resource for ceramicists It includes contributions from leading researchers around the world and includes sections on Basic Science of Advanced Ceramics Functional Ceramics electro ceramics and optoelectro ceramics and engineering ceramics Contributions from more than 50 leading researchers from around the world Covers basic science of advanced ceramics functional ceramics electro ceramics and optoelectro ceramics and engineering ceramics Approximately 750 illustrations **Blackbody Radiometry** Victor Saprisky,Alexander Prokhorov,2020-10-19 This book the first of a two volume set focuses on the basic physical principles of blackbody radiometry and describes artificial sources of blackbody radiation widely used as sources of optical radiation whose energy characteristics can be calculated on the base of fundamental physical laws Following a review of radiometric quantities radiation laws and radiative heat transfer it introduces the basic principles of blackbody radiators design details of their practical implementation and methods of measuring their defining characteristics as well as metrological aspects of blackbody based measurements Chapters are dedicated to the effective emissivity concept methods of increasing effective emissivities their measurement and modeling using the Monte Carlo method techniques of blackbody radiators heating cooling isothermalization and measuring their temperature An extensive and comprehensive reference source this book is of considerable value to students researchers and engineers involved in any aspect of blackbody radiometry **Nanotechnology: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2014-02-28 Over the past few decades devices and technologies have been significantly miniaturized from one generation to the next providing far more potential in a much smaller package The smallest of these recently developed tools are miniscule enough to be invisible to the naked eye Nanotechnology Concepts Methodologies Tools and Applications describes some of the latest advances in microscopic technologies in fields as diverse as biochemistry materials

science medicine and electronics Through its investigation of theories applications and new developments in the nanotechnology field this impressive reference source will serve as a valuable tool for researchers engineers academics and students alike

**Polarity-Dependent Removal Interferences in Sink EDM of Titanium Alloys** Maximilian Holsten, 2018-12-31 In the design of turbomachinery components a significant effort is carried out regarding the optimization of efficiency The increase in thermal efficiency particularly involves the introduction of high performance alloys Such alloys are for example titanium alloys Sink electrical discharge machining sink EDM is a crucial manufacturing process for components due to its independence of machined material strengths however new materials require process design Hence research to understand and optimize the machining of titanium alloys is of great benefit to the industry in general A positive tool polarity is generally adopted in sink EDM to maximize material removal relative to tool wear Sink EDM of titanium alloys as Ti6Al4V is however atypical in that these materials necessitate a negative tool polarity Adding to the intrigue are gamma titanium aluminides TiAl which machine better under the conventional positive polarity Established explanatory models of sink EDM fail in resolving the removal behavior a need for fundamental research is given This thesis focuses on clarifying the phenomena behind this interesting behavior by investigating removal mechanisms over a range of relevant process conditions The polarity effect is demonstrated to arise from the polarity dependent nature and extent of titanium carbide TiC formation on the workpiece surface which significantly affects material removal mechanisms An explanatory model deduced from different experimental and numerical approaches clarifies the influence of polarity to the formation mechanism of a TiC layer With regard to monitoring of adverse layer formations the measurement of acoustic emission AE is proven an appropriate concept A correlation of the AE signal to process forces is even established which may be crucial to determine the deflection of thin electrodes in EDM Finally the knowledge acquired is applied and enhanced in comprehensive process design that also involves the machining of additively manufactured TiAl The study reveals the beneficial behavior of the fine microstructure relative to the resulting surface integrity As a result this thesis delivers a model based concept for process design with respect to the adequate choice of tool polarity during machining of titanium alloys

**Stability Loss and Buckling Delamination** Surkay Akbarov, 2012-08-14 This book investigates stability loss problems of the viscoelastic composite materials and structural members within the framework of the Three Dimensional Linearized Theory of Stability TDLTS The stability loss problems are considered the development of the initial infinitesimal imperfection in the structure of the material or of the structural members This development is studied within the framework of the Three Dimensional Geometrical Non Linear Theory of the Deformable Solid Body Mechanics The solution to the corresponding boundary value problems is presented in the series form in the small parameter which characterizes the degree of the initial imperfection In this way the nonlinear problems for the domains bounded by noncanonical surfaces are reduced for the same nonlinear problem for the corresponding domains bounded by canonical surfaces and the series subsequent linearized problems It is

proven that the equations and relations of these linearized problems coincide with the corresponding ones of the well known TDLTS Under concrete investigations as stability loss criterion the case is taken for the initial infinitesimal imperfection that starts to increase indefinitely Moreover it is proven that the critical parameters can be determined by the use of only the zeroth and first approximations N4-Macrocyclic Metal Complexes J.H. Zagal,Fethi Bedioui,J.P. Dodelet,2007-07-16 In response to significant developments in sensor science and technology this book offers insight into the various extended applications and developments of N4 macrocycle complexes in biomimetic electrocatalysis Chapters are devoted to the chemistry electronic and electrochemical properties of porphyrin based polymetallated supramolecular redox catalysts and their applications in analytical and photoelectrochemical molecular devices the use of porphyrins phthalocyanines and related complexes as electrocatalysts for the detection of a wide variety of environmentally polluting and biologically relevant molecules and the use of electropolymerized metalloporphyrin and metallophthalocyanine films as powerful materials for analytical tools especially for sensing biologically relevant species **Proceedings of the Scientific-Practical**

**Conference "Research and Development - 2016"** K. V. Anisimov,A. V. Dub,S. K. Kolpakov,A. V. Lisitsa,A. N. Petrov,V. P. Polukarov,O. S. Popel,V. A. Vinokurov,2017-12-04 This open access book relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016 This event has summarized analyzed and discussed the interim results academic outputs and scientific achievements of the Russian Federal Targeted Programme Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014 2020 It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme computer science ecology energy and energy efficiency lifesciences nanoscience nanotechnology and transport communications The chapters report the results of the 3 years research projects supported by the Programme and finalized in 2016 **Rare-Earth Metal**

**Hexaborides: Synthesis, Properties, and Applications** Mikail Aslan,Cengiz Bozada,2023-04-03 Rareearth hexaborides are a group of materials composed of octahedral boron units They are useful for making advanced ceramics that have a wide range of industrial applications due to their low electronic work functions hardness refractory properties low electrical resistances and specific thermal expansion coefficients RareEarth Metal Hexaborides Synthesis Properties and Applications provides a quick reference on rareearth metal hexaborides and their engineering applications It provides a primer on rare earth elements followed by details of rareearth hexaboride structures synthetic methods and information about their alloys and ceramic composites References to scholarly research are also provided for assisting advanced readers This reference is a handy source of information for chemical engineering and materials science scholars and anyone interested in the applied chemistry of rareearth metals and borides Nanostructured Coatings Albano Cavaleiro,Jeff T. de Hosson,2007-02-19

Controlling the performance of structures and components of all sizes and shapes through the use of engineered coatings has long been a key strategy in materials processing and technological design The ever increasing sophistication of en neered

coatings and the rapid trend toward producing increasingly smaller devices with greater demands on their fabrication properties and performance have led to significant progress in the science and technology of coatings particularly in the last decade or two Nanostructured coatings constitute a major area of scientific exploration and technological pursuit in this development With characteristic structural length scales on the order of a few nanometers to tens of nanometers nanostructured coatings provide potential opportunities to enhance dramatically performance by offering in many situations extraordinary strength and hardness unprecedented resistance to damage from tribological contact and improvements in a number of functional properties At the same time there are critical issues and challenges in optimizing these properties with wear tolerance interfacial adhesion and other nonmechanical considerations depending on the coating systems and applications Nanostructured coatings demand study in a highly interdisciplinary research arena which encompasses surface and interface science study of defects modern characterization methodologies cutting edge experimental developments to deposit synthesize consolidate observe as well as chemically and mechanically probe materials at the atomic and molecular length scales state of the art computational simulation techniques for developing insights into material behaviour at the atomic scale which cannot be obtained in some cases from experiments alone The interdisciplinary nature of the subject has made it a rich playing field for scientific innovation and technological progress

*The Cold Spray Materials Deposition Process*, 2007-09-21 The cold spray process produces dense low oxide coatings which can be used in such diverse applications as corrosion control and metals repair It has emerged as an important alternative to thermal spray coating techniques in certain areas This pioneering book reviews both the fundamentals of the process and how it can best be applied in practice The first part of the book discusses the development of the process together with its advantages and disadvantages in comparison with thermal spray coating techniques Part two reviews key process parameters such as powders nozzle design particle temperature and velocity and particle substrate interaction It also describes portable and stationary cold spray systems The final part of the book discusses how the cold spray process can be applied in such areas as improved wear corrosion protection electromagnetic interference shielding and repair of damaged components The cold spray materials deposition process is a standard reference on this important process and its industrial applications Examines the fundamentals of the cold spraying process Assesses how the technique can best be applied in practice Describes portable and stationary cold spray systems

*Comprehensive Nuclear Materials*, 2020-07-22 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 Second Edition Seven Volume Set 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

*Advances in Medical and Surgical Engineering* Waqar Ahmed, David Phoenix, Mark Jackson, Charaçambous P. Charalambous, 2020-03-21 Advances in Medical and Surgical Engineering integrates the knowledge and experience of experts from academia and practicing surgeons working with patients The cutting edge progress in medical technology applications is making the traditional line between engineering and medical science ever thinner This is an excellent resource for biomedical engineers working in industry and academia on developing medical technologies It covers challenges in the application of technology in the clinic with views from an editorial team that is highly experienced in engineering biomaterials surgical practice biomedical science and technology and that has a proven track record of publishing applied biomedical science and technology For medical practitioners this book covers advances in technology in their domain For students this book identifies the opportunities of research based on the reviews of utilization of current technologies The content in this book can also be of interest to policymakers research funding agencies and libraries that are contributing to development of medical technologies Covers circulatory support aortic valve implantation and microvascular anastomosis Explores arthroplasty of both the knee and the shoulder Includes tribology of materials laser treatment and machining of biomaterial

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