

# **HANDBOOK OF REFRACTORY CARBIDES AND NITRIDES**

**Properties, Characteristics, Processing  
and Applications**



by  
**Hugh O. Pierson**

**NOYES PUBLICATIONS**

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

**Peter Eyerer**



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

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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 **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 *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 **Handbook of Advanced Ceramics** Branko Matović, Toyohiko Yano, 2013-04-11

**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

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*Ductile Mode Cutting of Brittle Materials* Kui Liu,Hao Wang,Xinquan Zhang,2019-10-12 This book provides a systematic and comprehensive interdisciplinary overview of ductile mode cutting of brittle materials covering a range of topics from the fundamental physics to engineering practices Discussing the machining mechanics and material properties it explains the fundamental mechanism of ductile to brittle transition in the cutting of brittle materials It also presents theoretical modeling and molecular dynamic simulation to demonstrate that ductile mode cutting can be achieved under certain conditions as well as extensive experimental studies that produced smooth and damage free surfaces on different materials such as silicon glass tungsten carbide and calcium fluoride Lastly it explores how the ductile mode cutting performance and machinability of brittle materials can be further improved by hybrid machining processes like ultrasonic vibration and thermal assisted cutting technologies in order to meet industry demands

*Methodologies and Applications for Chemoinformatics and Chemical Engineering* Haghi, A. K.,2013-05-31 In recent years significant advances have been made in the development of chemistry and computer science integration into the fields of biomedical and chemical engineering applying quantum principles to practical macro world science Methodologies and Applications for Chemoinformatics and Chemical Engineering brings together innovative research new concepts and novel developments in the application of informatics tools for applied chemistry and computer science This book is essential amongst chemists engineers and researchers in providing mutual communication between academics and industry professionals around the world

**Advances in Engineering Materials and Applied Mechanics** Guangde Zhang,Quanjie Gao,Qiang Xu,2015-10-22 With the rapid development of Machinery Materials Science and Engineering Application discussion on new ideas related mechanical engineering and materials science arise In this proceedings volume the author s are focussed on Machinery Materials Science and Engineering Applications and other related topics The Conference has pro

**Handbook of the Chemical Elements** Hermann Sicius,2024-10-28 This reference work describes comprehensively compactly and precisely the history properties production and application of all elements of the periodic table Particular attention is paid to the chemical compounds of the elements which are also

presented extensively This book contains 23 chapters each of which includes the elements in the form of subchapters of the eight main groups the first and second as well as the fourth to tenth subgroups the rare earth metals and the third subgroup as well as the actinides Finally there is an outlook on the as yet undiscovered elements of the eighth and ninth periods on alternative more environmentally friendly drives for motor vehicles such as batteries and fuel cells as well as on semiconductor technology i e areas that will continue to see increasing research activity in the future Whenever possible the author has always maintained the order of chalcogenides halides pnictogenides and other compounds when presenting the chemical compounds of the elements The introductory part which illuminates the history of the respective element often contains biographies of well known researchers whose creative periods range from the near past to the Middle Ages You will not only find portraits of chemists but also of nuclear physicists astronomers and medical doctors

**Design, Development, and Applications of Engineering Ceramics and Composites** Dileep Singh, Dongming Zhu, Yanchun Zhou, 2010-07-23 This compilation of proceedings covering the latest scientific and technological developments in design development and applications of engineering ceramics and composites provides a useful one stop resource for understanding the most important issues in design development and applications of engineering ceramics and composites Logically organized and carefully selected articles give insight into design development and applications of engineering ceramics and composites and incorporates the latest developments related to design development and applications of engineering ceramics and composites including developments in engineering ceramics advanced ceramic coatings and geopolymers

**Dynamic Response of Advanced Ceramics** Ghatu Subhash, Amnaya Awasthi, Dipankar Ghosh, 2021-06-02 Dynamic Response of Advanced Ceramics Discover fundamental concepts and recent advances in experimental analytical and computational research into the dynamic behavior of ceramics In Dynamic Response of Advanced Ceramics an accomplished team of internationally renowned researchers delivers a comprehensive exploration of foundational and advanced concepts in experimental analytical and computational aspects of the dynamic behavior of advanced structural ceramics and transparent materials The book discusses new techniques used for determination of dynamic hardness and dynamic fracture toughness as well as edge on impact experiments for imaging evolving damage patterns at high impact velocities The authors also include descriptions of the dynamic deformation behavior of icosahedral ceramics and the dynamic behavior of several transparent materials like chemically strengthened glass and glass ceramics The developments discussed within the book have applications in everything from high speed machining to cutting grinding and blast protection Readers will also benefit from a presentation of emerging trends and directions in research on this subject as well as current challenges in experimental and computational domains including An introduction to the history of ceramic materials and their dynamic behavior including examples of material response to high strain rate loading An exploration of high strain rate experimental techniques like 1D elastic stress wave propagation techniques shock waves and impact testing Discussions of the static and

dynamic responses of ceramics and the shock response of brittle solids An overview of deformation mechanisms during projectile impact on a confined ceramic including damage evolution during the nonpenetration and penetration phases Perfect for researchers scientists and engineers working on ballistic impact and shock response of brittle materials Dynamic Response of Advanced Ceramics will also earn a place in the libraries of industry personnel studying impact resistant solutions for a variety of applications      Particulate Composites Randall M. German, 2016-06-14 This book is focused on composites involving powders as the starting materials It provides relevant information for questions related to the selection of constituent phases most economic fabrication routes proper testing procedures and product optimization The field is sufficiently advanced that predictive models guide many decisions Applications are illustrated over a broad range of material and property combinations This title includes Selection of phases with consideration of intersolubility interface Microstructure especially the role of phase connectivity Fabrication approaches especially net shape consolidation Assessment of typical properties testing techniques industry standards Design trade off decisions involved in optimization including cost Applications both those that have matured and some emerging prospects The reader may have little appreciation for how particulate composites are literally everywhere Examples include new wear resistant consumer products Apple watch longer lasting automotive tires with reduced rolling resistance Yokohama tires and new diamond heat sinks for computers Element Six substrates Particulate composites also form critical components in applications such as magnets dental fillings brakes darts bio implants cutting tools Particulate composites are a multi billion dollar industry and can be a cost effective solution ripe for innovation and continued rapid growth For the engineer the wide range of particulate composite formulation and property combinations offers the ability to design for a variety of application and provides ample opportunity for innovation Particulate Composites Fundamentals Applications is ideal for use in a one semester eng course at the senior UG graduate level and is also suitable as a practical reference for materials scientists in academia and industry

*Polymers - Opportunities and Risks I* Peter Eyerer, 2010-07-31 Since their first industrial use polymers have gained a tremendous success The two volumes of Polymers Opportunities and Risks elaborate on both their potentials and on the impact on the environment arising from their production and applications Volume 11 Polymers Opportunities and Risks I General and Environmental Aspects is dedicated to the basics of the engineering of polymers always with a view to possible environmental implications Topics include materials processing designing surfaces the utilization phase recycling and depositing Volume 12 Polymers Opportunities and Risks II Sustainability Product Design and Processing highlights raw materials and renewable polymers sustainability additives for manufacture and processing melt modification biodegradation adhesive technologies and solar applications All contributions were written by leading experts with substantial practical experience in their fields They are an invaluable source of information not only for scientists but also for environmental managers and decision makers      *MXenes* Yury Gogotsi, 2023-08-24 Since their discovery in 2011 MXenes 2D carbides



nitrides and carbonitrides of early transition metals have developed into one of the largest and most intensively studied families of 2D materials. They offer unique properties and are being explored in a large variety of applications. This book compiles the most important research from a pioneer of the field, Professor Yury Gogotsi, and his interdisciplinary research team, as well as numerous collaborators worldwide. It reports on the discovery and rise of MXenes and describes their synthesis and processing properties and incorporation into polymer, ceramic, and metal matrices to produce composites. It also discusses the potential of MXenes for use in energy storage, optics, electronics, and sensing, as well as biomedical, environmental, and electrocatalysis applications. The book will appeal to anyone interested in nanomaterials and their synthesis, properties, and applications.

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