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## Handbook Of Refractory Carbides Nitrides Properties Characteristics Processing And Apps Materials Science And Process Technology

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Refractory carbides and nitrides are materials with a high melting point, arbitrarily selected as greater than 1800 ° C and must have a high degree of chemical stability. Carbides and nitrides can be divided into several types depending on their different physicochemical structures and characteristics.

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Handbook of Refractory Carbides and Nitrides: Properties, Characteristics, Processing and Applications (Materials Science and Process Technology) 1st Edition by Hugh O. Pierson (Author)

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Handbook of Refractory Carbides and Nitrides. Hugh O. Pierson. 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.

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Handbook of Refractory Carbides and Nitrides Figure 3.6: Cloud representation of the sp<sup>3</sup> hybrid orbital. The energy required to accomplish the sp<sup>3</sup> hybridization and raise the carbon atom from the ground state to the corresponding valence state V, is 230 kJ mol<sup>-1</sup>.

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Handbook of Refractory Carbides and Nitrides Details 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.

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title = {Handbook of refractory carbides and nitrides: Properties, characteristics, processing and applications}, author = {Pierson, H O}, abstractNote = {This reference work provides a complete review of the structure properties, processing and applications of refractory carbides and nitrides. The contents include: the refractory carbides; interstitial carbides, structure and composites; titanium, zirconium, and hafnium carbides; vanadium, niobium and tantalum carbides; chromium, molybdenum

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0815513925 - Handbook of Refractory Carbides and Nitrides ...

The refractory carbides and nitrides are reviewed together in one book because : • They form two families of closely related materials which have similar atomic structures and chemistry. Carbon and nitrogen are next to each other the second period of the Table of the Elements and, in many cases, the carbides and nitrides form solid solutions (known as carbonitrides)

Handbook of Refractory Carbides and Nitrides, Hugh O ...

In cemented carbides, typically 60 – 95 vol.% of the carbide phase is bonded by a more ductile metal, invariably a cobalt, nickel or iron alloy. The most important refractory carbides are WC, TiC and TaC; annual world production of these carbides is about 20 kt, 1.5 kt and 0.35 kt, respectively.

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.

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Deals with the influence of stoichiometry and order/disorder on materials properties. It summarizes the knowledge available in a comprehensive way.

A survey of current research on a wide range of carbide, nitride and boride materials, covering the

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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.

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.

This exhaustive work in three volumes and over 1300 pages provides a thorough treatment of ultra-high temperature materials with melting points over 2500 ° C. The first volume focuses on Carbon and Refractory Metals, whilst the second and third are dedicated solely to Refractory compounds and the third to Refractory Alloys and Composites respectively. Topics included are physical (crystallographic, thermodynamic, thermo physical, electrical, optical, physico-mechanical, nuclear) and chemical (solid-state diffusion, interaction with chemical elements and compounds, interaction with gases, vapours and aqueous solutions) properties of the individual physico-chemical phases of carbon (graphite/graphene), refractory metals (W, Re, Os, Ta, Mo, Nb, Ir) and compounds (oxides, nitrides, carbides, borides, silicides) with melting points in this range. It will be of interest to researchers, engineers, postgraduate, graduate and undergraduate students alike. The reader is provided with the full qualitative and quantitative assessment for the materials, which could be applied in various engineering devices and environmental conditions at ultra-high temperatures, on the basis of the latest updates in the field of physics, chemistry, materials science and engineering.

This exhaustive work in several volumes and over 2500 pages provides a thorough treatment of ultra-high temperature materials (with melting points around or over 2500 ° C). The first volume focuses on carbon (graphene/graphite) and refractory metals (W, Re, Os, Ta, Mo, Nb and Ir), whilst the second and third are dedicated to refractory transition metal 4-5 groups carbides. Topics included are physical (structural, thermal, electro-magnetic, optical, mechanical, nuclear) and chemical (more than 3000 binary, ternary and multi-component systems, including those used for materials design, data on solid-state diffusion, wettability, interaction with various elements and compounds in solid and liquid states, gases and chemicals in aqueous solutions) properties of these materials. It will be of interest to researchers, engineers, postgraduate, graduate and undergraduate students alike. The readers/users are provided with the full qualitative and quantitative assessment, which is based on the latest updates in the field of fundamental physics and chemistry, nanotechnology, materials science, design and engineering.

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

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reference source will serve as a valuable tool for researchers, engineers, academics, and students alike.

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.

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

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