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Handbook Of Refractory Carbides Nitrides

This chapter outlines the historical perspective and the present status of refractory carbides and nitrides. 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.

Handbook of Refractory Carbides and Nitrides | ScienceDirect

The main objective of this book is to: (1) provide a complete review of the structures and properties of refractory carbides and nitrides; (2) provide a thorough assessment of the technology, processing, and equipment and systems used in production and R&D, with emphasis on advanced designs; and (3) identify and describe the applications, particularly new and emerging areas.

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Handbook of Refractory Carbides and Nitrides - 1st Edition

Handbook of Refractory Carbides and Nitrides 1. Introduction. 2. The Refractory Carbides. 3. Interstitial Carbides, Structure and Composition.

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Refractory Carbides. The carbides of the group IV, V, and VI transition metals are similar to refractory ceramics in terms of their melting points, high hardnesses, and high values of Young's modulus, but they have electrical, optical, and magnetic properties more typical of the transition metals.

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Group 4, 5, and 6 transition metals, that is the titanium, vanadium and chromium groups all form nitrides. They are refractory, with high melting point and are chemically stable. Representative is titanium nitride. Sometimes these materials are called "interstitial nitrides." Nitrides of the Group 7 and 8 transition

Nitride - Wikipedia

Ceramics, Refractories, and Glasses. Particular attention is given to the most common ceramic materials found in industry and their raw materials namely: silica and silicates, bauxite and alumina, magnesite and magnesia, limestone and calcia, zircon and zirconia, carbon-based and silicon carbide along with the description...

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