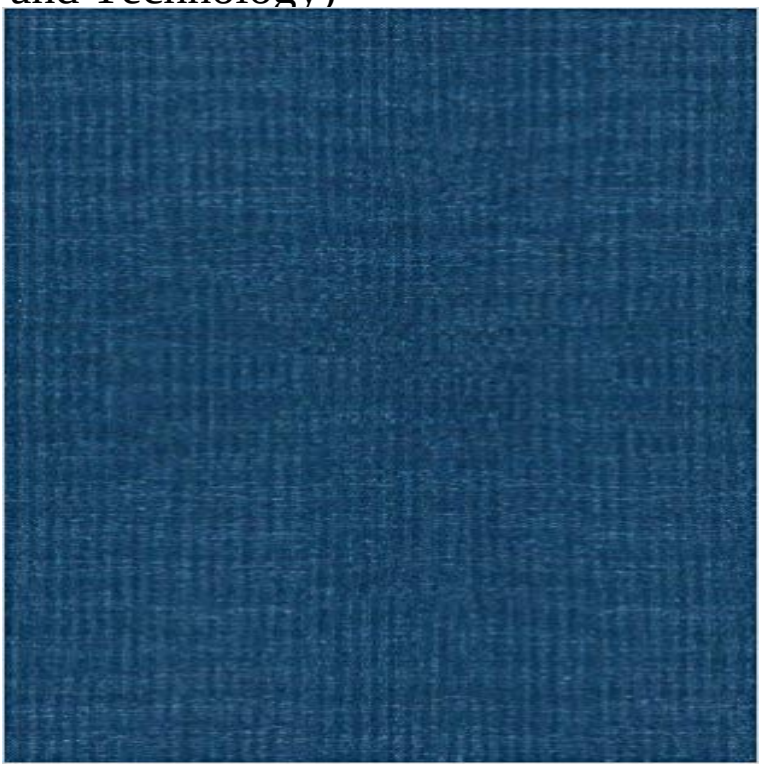
Phase Diagrams in Advanced Ceramics (Treatise on Materials Science and Technology)



The investigation of multi-component complex systems composed of oxides, nitrides, and carbides has intensified in the last few years. Phase Diagrams in Advanced Ceramics reviews some of the recent advances inthe understanding of these composite systems, providing insight into how phase diagrams can be utilized in the fabrication of whiskers and ceramic-matrix whisker-reinforced ceramics. Phase relations and sintering information is reviewed for transparent polycrystalline oxides. Phase diagrams are discussed to predict alkali oxide corrosion of alumino-silicate references.

Key Features* This Treatise Provides Coverage of:* Understanding the development, manufacture, and use of complex, multi-component ceramic materials composed of silicon nitride-metal oxides-nitride-carbide systems* Development and use of whisker and whisker-reinforced ceramics composed of materials such as alumina, silicon-nitride, silicon carbide, and directly solidified eutectic ceramics* Application of phase diagrams to the production of advanced composites such as alumina-matrix, zirconium diboride and titanium, hafnium, zirconium, carbides, and borides* Phase chemistry in the development of transparent poly-crystal and oxides, including yttria, alumina, and magnesium aluminate* Improvements concerning the knowledge of complex multi-component materials composed of oxides, nitrides, and carbides, and knowledge of how to fabricate composite materials containing whiskers and ceramic hosts* New developments in making transparent ceramic materials

Advanced Functional Materials - Volume 2 of Science and Technology of .. CALPHAD: Calculation of Phase Diagrams - Volume 1 of Pergamon Materials Series . Ceramic Fabrication Processes - Volume 9 of Treatise on Materials ScienceKop Phase Diagrams in Advanced Ceramics av Allen M Alper, Gernot Kostorz, Herbert Herman pa . Treatise

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