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Engineered Materials Handbook: Ceramics and Glasses v. 4 (Hardback)

By American Society for Metals, Samuel J. Schneider

ASM International, United States, 1991. Hardback. Condition: New. Language: English . Brand New Book. Provides exhaustive, yet practical information on processing, properties, testing and characterization, design, and applications of various types of ceramics and glasses. The coverage ranges from bricks to super conductors, windows to data transmission lines. Ceramics and Glasses consists of 170 articles divided into 15 major sections. The first section defines and classifies ceramic materials and provides introductory information on each class. Sections two through five deal with processing of ceramic materials. Powder processing, forming methods, sintering, and final shaping (machining) are described. Each article in these sections explains how to produce a flaw-free product. A companion section on glass processing follows. Reliable methods of joining ceramics, a subject critical to the increasing use of structural ceramics are examined in section seven. What follows are two sections devoted to the characterization tools available for studying ceramics and glasses. Processing-structure-property relationships, which are key to the development of improved materials, are introduced. The knowledge required to design structural elements and concepts of design methodology are addressed in section ten. Design practices used for such applications as gas turbine engines, gasoline engines, and whisker-toughened ceramic components are detailed. An...



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