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Structural Ceramics

By XIE ZHI PENG

Tsinghua University Press, 2011. Hardcover. Book Condition: New. 1st Edition. Pages:644 Structural ceramics of written on the basis of structural ceramic materials in teaching and scientific research work. trying to comprehensive and systematic introduction to structural ceramics basic research and technology development in the past 20 years engaged in. and to reflect the latest research progress at home and abroad. The structural ceramics include four parts: (1) the basic theory of structural ceramics and Characterization; (2) advanced structural ceramics preparation process. such as the synthesis of ceramic powders. forming modern technology. advanced sintering technology. precision machining technology; (3) research and development of the oxide structural ceramics. non-oxide structural ceramics; (4) recent development of ultra-high temperature ceramics. transparent ceramics. machinable ceramics preparation and application of new structural ceramics. Structural ceramics for tertiary institutions. research institutes. materials and other related professional and students engaged in the the _T process Ceramics Research manufacturing technology workers read. Contents: Preface Foreword first Ceramics and characterization of the l-ceramic performance characterization 1.1 ceramic materials chemically 1.1.1 ionic bond ionic crystals 1.1.2 covalent bond and covalent bonds crystal 1.1.3 van der Waals bond with hydrogen bonds 1.2 the ceramic basic physical properties 1.2.1 Ceramic density ceramic hardness...


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