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updated and improved this revised edition of michel barsoum's classic text fundamentals of ceramics presents readers with an exceptionally clear and comprehensive introduction to ceramic science barsoum offers introductory coverage of ceramics their structures and properties with a distinct emphasis on solid state physics and chemistry key eq

fundamentals of ceramics presents readers with an exceptionally clear and comprehensive introduction to ceramic science this second edition updates problems and adds more worked examples as well as adding new chapter sections on computational materials science and case studies the computational materials science sections describe how today density functional theory and molecular dynamics calculations can shed valuable light on properties especially ones that are not easy to measure or visualize otherwise such as surface energies elastic constants point defect energies phonon modes etc the case studies sections focus more on applications such as solid oxide fuel cells optical fibers alumina forming materials ultra strong and thin glasses glass ceramics strong and tough ceramics fiber reinforced ceramic matrix composites thermal barrier coatings the space shuttle tiles electrochemical impedance spectroscopy two dimensional solids field assisted and microwave sintering colossal magnetoresistance among others

suites for courses in ceramics this text is grounded in the fundamentals of ceramics with emphasis on solid state physics and chemistry chapters 1 9 deal with the atomic structure bonding the transport of charged defects and their relationships to conductivity in ceramics phase diagrams and glasses chapters 11 16 deal with specific properties and include mechanical thermal dielectric and optical properties

in this comprehensive yet compact monograph michel w barsoum one of the pioneers in the field and the leading figure in max phase research summarizes and explains from both an experimental and a theoretical viewpoint all the features that are necessary to understand and apply these new materials the book covers elastic electrical thermal chemical and mechanical properties in different temperature regimes by bringing together in a unified self contained manner all the information on max phases hitherto only found scattered in the journal literature this one stop resource offers researchers and developers alike an insight into these fascinating materials

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