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this 2nd edition of introduction to ceramics has been printed 15 years after the 1st edition many advances have been made in understanding and controlling and developing new ceramic processes and products this text has a considerable amount of new material and the product

modification

the field of ceramics has applications in diverse fields including electronic engineering electrical engineering biochemical engineering automobile engineering and defense sector this textbook discusses ceramic raw materials properties of ceramics fabrication techniques of ceramics and testing of ceramics it comprehensively discusses mechanical properties thermal properties optical properties electrical properties and magnetic properties of ceramics the text covers structural characteristics properties and applications of advanced ceramic materials and examines their difference from the conventional ceramics a separate chapter discusses testing methods of ceramics including testing of raw materials testing of physical properties testing of mechanical strength and testing of electrical properties in dept this textbook begins by discussing ceramic raw materials proceeds with conventional ceramics continues with properties and fabrication techniques of ceramic materials testing of ceramics and ends with covering advanced ceramics this book features covers ceramics from traditional to advanced discusses fabrication characterization and applications of ceramics in detail examines mechanical properties thermal properties optical properties electrical properties and magnetic properties of ceramics in detail covers structural characteristics properties and applications of carbides nitrides oxides and borides discusses processing techniques including mechanical separation and magnetic separation of ceramics it will help serve as ideal study material for senior undergraduate and graduate students in the field of chemical engineering materials science and engineering and ceramic technology

all refractories are ceramics but not all ceramics are refractories ceramics and refractories cover a wide range of fields and applications and their relevance can be traced as far back as 24 000 bc to the first man made piece of earthenware and as recently as the late 1900s when ceramics and ceramic matrix composites were developed to withstand ultra high temperatures beginning with a detailed history of ceramics an introduction to ceramics and refractories examines every aspect of ceramics and refractories and explores the connection between them the book establishes refractories as a class of ceramics with high fusion points introduces the fundamentals of refractories and ceramics and also addresses several applications for each understand ceramic properties and refractory behavior the book details applications for natural

and synthetic ceramics as well as traditional and engineering applications it focuses on the various thermal and thermo mechanical properties of ceramics classifies refractories describes the principles of thermodynamics as applied to refractories and highlights new developments and applications in the ceramic and refractory fields it also presents end of chapter problems and a relevant case study divided into three sections this text introduces and details the applications of ceramics and refractories discusses the selection of materials and the two stages in selection describes the phase equilibriums in ceramic and refractory systems outlines the three important systems unary binary and ternary considers corrosion of ceramics and refractories failures in ceramics and refractories and the design aspects addresses bonding structures of ceramics defects in ceramics and ceramics microstructures covers the production of ceramic powders starting from the raw materials explains four forming methods highlights three types of thermal treatments defines mechanical properties and thermal and thermo mechanical properties classifies materials and designates classes addressing topics that include corrosion applications thermal properties and types of refractories an introduction to ceramics and refractories provides you with a basic knowledge of the fundamentals of refractories and ceramics and presents a clear connection between refractory behavior and ceramic properties to the practicing engineer

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ceramic materials science and engineering is an up to date treatment of ceramic science engineering and applications in a single integrated text building on a foundation of crystal structures phase equilibria defects and the mechanical properties of ceramic materials students are shown how these materials are processed for a broad diversity of applications in today's society concepts such as how and why ions move how ceramics interact with light and magnetic fields and how they respond to temperature changes are discussed in the context of their applications references to the art and history of ceramics are included throughout the text the text concludes with discussions of ceramics in biology and medicine ceramics as gemstones and the role of ceramics in the interplay between industry and the environment extensively illustrated the text also includes questions for the student and recommendations for additional reading key features combines the treatment of bioceramics furnaces glass optics pores gemstones and point defects in a single text provides abundant examples and illustrations relating theory to practical applications suitable for advanced undergraduate and graduate teaching and as a reference for researchers in materials science written by established and successful teachers and authors with experience in both research and industry

an introduction to ceramic science covers the principles of ceramic science the physicochemical system and atomic mechanisms of ceramics this book is organized into eight chapters and begins with a study of atoms and the way in which they bond together to form crystalline solids this topic is followed by a geometrical description of the structures of some crystals of particular importance in ceramics and some of the features of the elementary classical theory of ionic crystals the following chapter presents the principles of the thermodynamic and phase diagram approaches to study phase equilibrium in ceramics a chapter is devoted to the microstructure and porosity of ceramics the discussion then shifts to several atomic movements in dense ceramics such as diffusion nucleation and grain growth the concluding chapters examine the mechanical properties and densification processes in ceramics this book is of great value to ceramists scientists researchers and undergraduate students who are interested in improving ceramic materials for particular applications

this book embraces both traditional and advanced ceramics produced from synthetic or deeply

transformed natural raw materials following the path of ceramic innovation this introduction explains electric properties of ceramic conductors like high temperature superconductors reflects on the interaction of material and electromagnetic radiation presents the importance of voids and defects in the material and provides an outlook on most recent developments in the field of ceramics such as smart or self healing materials it provides a quick grasp of the main points of ceramic thinking and is an ideal starting point for students in the field of chemistry materials science or solid state physics

introductory essay on the history and scope of ceramics manufacturing and research page also offers links to other pages on the american ceramic society website

this is the only introductory ceramics text available that combines a thorough appreciation of the aesthetics of ceramic art with extensive discussions of the history of ceramics as well as techniques for working in clay

over the past twenty five years ceramics have become key materials in the development of many new technologies as scientists have been able to design these materials with new structures and properties an understanding of the factors that influence their mechanical behavior and reliability is essential this book will introduce the reader to current concepts in the field it contains problems and exercises to help readers develop their skills this is a comprehensive introduction to the mechanical properties of ceramics and is designed primarily as a textbook for advanced undergraduates in materials science and engineering it will also be of value as a supplementary text for more general courses and to industrial scientists and engineers involved in the development of ceramic based products materials selection and mechanical design

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