

Introduction to Solid State Physics, 8th Edition
Charles Kittel

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Jin-Ying Zhang



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Doping of Metal Oxides Subhendu Chakroborty, Srikanta Moharana, Bibhuti Bhusan Sahu, Santosh Kumar Satpathy, 2025-12-19 Doping of Metal Oxides From Fundamentals to Applications covers the concepts synthesis characterization and applications of doped metal oxides The book begins with an introduction to the fundamentals of doping including electronic structure band gap engineering and types of dopant agents before exploring the various synthesis methods and characterization techniques The book also explores the challenges and limitations in doping metal oxides and offers insights into emerging trends and prospects The book adopts a systematic and logical approach focused on providing an in depth understanding of the concept of doping synthesis and characterization techniques and applications of doped metal oxides making it an essential resource for anyone seeking to gain deeper knowledge of this exciting field Provides a comprehensive overview of doping of metal oxides from fundamentals to synthesis characterization and applications Presents a broad range of applications for doped metal oxides including energy electronic devices optoelectronics sensors electrocatalysis and photocatalysis photo electrochemical water splitting environmental remediation dye degradation batteries and solar cells Addresses not only the exciting possibilities of new doped metal oxide materials but also the challenges inherent in their development and exploitation

Fundamentals of Ceramics Michel Barsoum, 2019-12-12 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

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