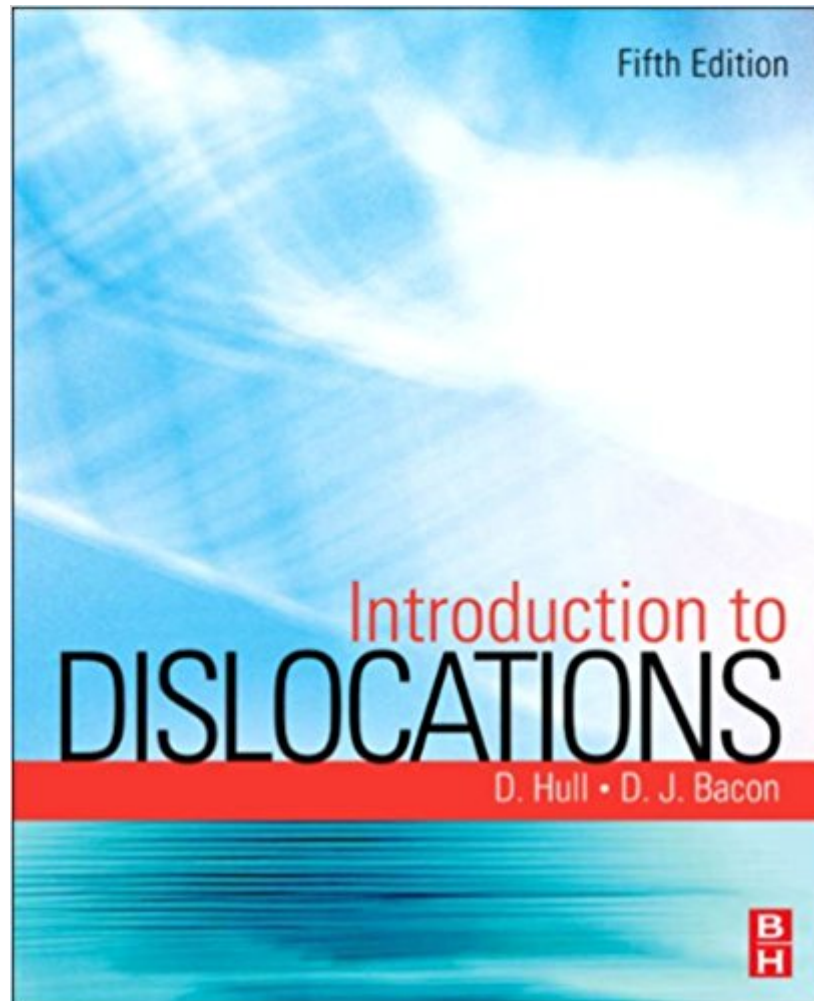




Ebook Directory
the best source of ebook

The book was found

Introduction To Dislocations



Synopsis

In materials science, dislocations are irregularities within the crystal structure or atomic scale of engineering materials, such as metals, semi-conductors, polymers, and composites. Discussing this specific aspect of materials science and engineering, Introduction to Dislocations is a key resource for students. The book provides students and practitioners with the fundamental principles required to understand dislocations. Comprised of 10 chapters, the text includes advanced computer modeling and very high-resolution electron microscopy to help readers better understand the structure of atoms close to the core of dislocations. It shows that atomic arrangement has a significant effect on the formation of dislocations and thereby on the properties of solids. The first two chapters of the book present an overview of dislocations. The crystal structures and the various defects and dislocations are discussed, and methods of observation and diagnosis of dislocations are covered. Chapters 3 to 5 discuss the behavior of dislocations and explain how changes in the structure and arrangement of atoms can affect the behavior of dislocations. The three chapters also discuss the mechanical properties of dislocations. The remaining chapters offer a detailed discussion of the mechanisms of dislocations and the mechanical strength of crystalline solids. The book is written for undergraduate- and graduate-level students in both materials science and mechanical engineering. Non-experts and novices working on mechanical properties, mechanisms of deformation and fracture, and properties of materials, as well as industrial and academic researchers, will find this book invaluable. Long-established academic reference by an expert author team, highly regarded for their contributions to the field. Uses minimal mathematics to present theory and applications in a detailed yet easy-to-read manner, making this an understandable introduction to a complex topic. Unlike the main competition, this new edition includes recent developments in the subject and up-to-date references to further reading and research sources.

Book Information

File Size: 4434 KB

Print Length: 268 pages

Page Numbers Source ISBN: 0080966721

Publisher: Butterworth-Heinemann; 5 edition (February 18, 2011)

Publication Date: February 18, 2011

Sold by:Â Digital Services LLC

Language: English

ASIN: B005DXMVI8

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #547,381 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #3 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Mechanical > Fracture Mechanics #29 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Fracture Mechanics #123 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Materials Science

Customer Reviews

It is an ideal textbook for graduate students in materials science who are interested in the deformation mechanism of polycrystalline metallic materials.

This was my test in Grad School - only better with the subsequent revisions. Every engineer should read this book - EE to Environmental Sciences

good

I bought this book to learn more about the subject of dislocations. I've never taken any course in dislocations, but I found this book (at least the first four chapters) relatively simple to read and understand. This book provides a good entry-level introduction to dislocations. It is recommended as a first read if you do not have previous background in dislocations.

Very well. fast . professional service. my family , Heavy product with good balance

[Download to continue reading...](#)

Introduction to Dislocations, Fifth Edition Introduction to Dislocations Introduction to Dislocations, Fourth Edition Slipping Away: Banana Politics and Fair Trade in the Eastern Caribbean (Dislocations) The Crystal Lattice: Phonons, Solitons, Dislocations, Superlattices Theory of Dislocations An Introduction to Hinduism (Introduction to Religion) An Introduction to Buddhism: Teachings, History and Practices (Introduction to Religion) Introduction to Orthotics: A Clinical Reasoning and Problem-Solving Approach, 4e (Introduction to Splinting) Introduction to the

Pharmaceutical Sciences: An Integrated Approach (Pandit, Introduction to the Pharmaceutical Sciences) Introduction to Radiologic Technology, 7e (Gurley, Introduction to Radiologic Technology) Investing for Beginners: An Introduction to the Stock Market, Stock Market Investing for Beginners, An Introduction to the Forex Market, Options Trading An Introduction To Statutory Interpretation and the Legislative Process (Introduction to Law Series) Introduction To Property (Introduction to Law Series) An Introduction To Law and Legal Reasoning (Introduction to Law Series) Introduction to Law for Paralegals, Third Edition (Introduction to Law Series) (Aspen College Series) Reference and Information Services: An Introduction, 5th Edition: An Introduction (Library and Information Science Text) [Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012) [Paperback] Introduction to Radiologic Technology - E-Book (Gurley, Introduction to Radiologic Technology) Introduction to Critical Care Nursing, 6e (Sole, Introduction to Critical Care Nursing)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)