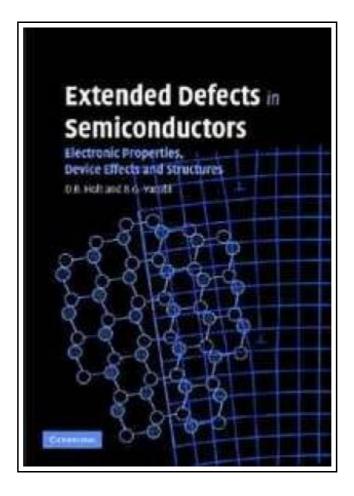
Extended Defects in Semiconductors: Electronic Properties, Device Effects, and Structures



Filesize: 1.82 MB

Reviews

These kinds of ebook is the ideal book offered. It is probably the most incredible publication i have got study. Your lifestyle span will likely be convert once you total looking at this pdf. (Lucio Breitenberg)

EXTENDED DEFECTS IN SEMICONDUCTORS: ELECTRONIC PROPERTIES, DEVICE EFFECTS, AND STRUCTURES



Cambridge University Press, Cambridge, UK, 2007. Hardcover. Book Condition: Brand New. Dust Jacket Condition: Brand New. First Edition. The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level. This book surveys the properties, effects, roles and characterization of extended defects in semiconductors. The basic properties of extended defects (dislocations, stacking faults, grain boundaries, and precipitates) are outlined, and their effect on the electronic properties of semiconductors, their role in semiconductor devices, and techniques for their characterization are discussed. These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices. The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions. This text is suitable for advanced undergraduate and graduate students in materials science and engineering, and for those studying semiconductor physics. A comprehensive survey, in one volume, of extended structural defects in semiconductors Suitable as a reference text for researchers but also as a textbook for graduate students Timely, in view of advances in electronic device development, which involve defect control and engineering at the nanometer level Contents 1. Semiconducting materials; 2. An introduction to extended defects; 3. Characterization of extended defects in semiconductors; 4. Core structures and mechanical effects of extended defects specific to semiconductors; 5. The electrical, optical and device effects of dislocations and grain boundaries; 6. Point defect materials problems. Printed Pages: 644 with 236 line diagrams, 113 half-tones, and 350 figures. Size: 175 x 255 Mm.

- Read Extended Defects in Semiconductors: Electronic Properties, Device Effects, and Structures Online
- Download PDF Extended Defects in Semiconductors: Electronic Properties, Device Effects, and Structures

You May Also Like



World of Reading: Minnie A Walk in the Park: Level Pre-1

Disney Press. Taschenbuch. Book Condition: Neu. Gebraucht - Sehr gut ungelesen, sehr guter Zustand; Rechnung mit MwSt.; unused/unread, very good condition; - Walking dogs can be RUFF! Minnie, Daisy, and Cuckoo-Loca are having a tail-waggin'...

Read Book »



TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2) (Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read Book »



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read Book »



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read Book »



DK Readers Day at Greenhill Farm Level 1 Beginning to Read

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.8in. x 5.7in. x 0.2in.This Level 1 book is appropriate for children who are just beginning to read. When the rooster crows, Greenhill Farm springs...

Read Book »



JA] early childhood parenting: 1-4 Genuine Special (Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2006-01-01 Pages: 179 Publisher: the China Pictorial Our book is all

Download Book »



Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: 2005 Pages: 815 Publisher: the Chinese teenager Shop Books all book.

Download Book »



NIV Soul Survivor New Testament in One Year

Paperback. Book Condition: New. Not Signed; 'The whole Bible, in just one year? You've got to be kidding.' Don't panic! How about just the New Testament to start off with? Take thousands of young people

Download Book »



Polly Oliver's Problem (Illustrated Edition) (Dodo Press)

Dodo Press, United Kingdom, 2007. Paperback. Book Condition: New. Illustrated. 224 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Kate Douglas Wiggin, nee Smith (1856-1923) was an American children s

Download Book »



Study and Master English Grade 6 Core Reader: First Additional Language

Cambridge University Press (South Africa). Paperback. Book Condition: new. BRAND NEW, Study and Master English Grade 6 Core Reader: First Additional Language, Karen Morrison, Fiona Macgregor, Daphne Paizee, Study & Master English First Additional Language

Download Book »