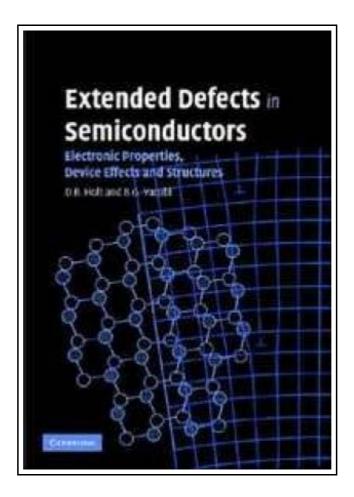
Extended Defects in Semiconductors: Electronic Properties, Device Effects, and Structures



Filesize: 6.79 MB

Reviews

Definitely among the best book I have possibly read. I have study and i am sure that i will going to go through once more once more later on. Your lifestyle span is going to be convert when you full looking at this publication.

(Prof. Damon Kautzer III)

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

See Also



Read Write Inc. Phonics: Grey Set 7 Storybook 13 the Invisible Clothes

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 175 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

Save eBook »



Read Write Inc. Phonics: Pink Set 3 Storybook 7 the Greedy Green Gremlin

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 175 x 162 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

Save eBook »



Read Write Inc. Phonics: Yellow Set 5 Storybook 9 Grow Your Own Radishes

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 175 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

Save eBook »



Love My Enemy

Andersen, UK, 2004. Softcover. Book Condition: New. First Edition. Available Now. Book Description: Zee (short for Zara) lives in a quiet suburb of Belfast, with an apparently idyllic family life. But Zee's father was shot...

Save eBook »



Children's and Young Adult Literature Database -- Access Card

Pearson Education (US), United States, 2012. Online resource. Book Condition: New. 175 x 124 mm. Language: English . Brand New Book. Pearson s Children s and Young Adult Literature Database This searchable database of over...

Save eBook »



Under the ninth-grade language - PEP - Online Classroom

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 197 Publisher: Dragon Book Pub. Date: 2009-9-1. Contents: Love in the first

Save ePub »



Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 6: Ice City (Hardback)

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 170 \times 145 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

Save ePub »



Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 6: Save Pudding Wood (Hardback)

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

Save ePub »



Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)

Oxford University Press, United Kingdom, 2014. Hardback. Book Condition: New. Mr. Nick Schon (illustrator). 177 x 148 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UKs best-selling

Save ePub »



Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: Cat in a Bag (Hardback)

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

Save ePub »