



# Radiation Effects in Solids

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NORTH-HOLLAND Elsevier



# Radiation Effects In Solids

**Charles Alexander Moore**



## **Radiation Effects In Solids:**

*Radiation Effects in Solids* George Julian Dienes, G. H. Vineyard, 1957 Introduction The interaction of radiation with matter Basic experiments Nature and properties of the defects Annealing of defects Special topics *Radiation Effects in Solids* Kurt E. Sickafus, Eugene A. Kotomin, Blas P. Uberuaga, 2007-05-22 This book contains proceedings of the NATO Advanced Study Institute ASI The 32 Course of the International School of Solid State Physics entitled Radiation Effects in Solids held in Erice Sicily Italy July 17 29 2004 at the Ettore Majorana Centre for Scientific Culture EMCSC The Course had 83 participants 68 students and 15 instructors representing 23 countries The purpose of this Course was to provide ASI students with a comprehensive overview of fundamental principles and relevant technical issues associated with the behavior of solids exposed to high energy radiation These issues are important to the development of materials for existing fission reactors or future fusion and advanced reactors for energy production to the development of electronic devices such as high energy detectors and to the development of novel materials for electronic and photonic applications particularly on the nanoscale The Course covered a broad range of topics falling into three general categories Radiation Damage Fundamentals Energetic particles and energy dissipation Atomic displacements and cascades Damage evolution Defect aggregation Microstructural evolution Material Dependent Radiation Damage Phenomena metals alloys semiconductors intermetallics ceramics polymers biomaterials Atomic and microstructural effects e g point defects color centers extended defects dislocations voids bubbles colloids phase transformations amorphization Macroscopic phenomena e g swelling embrittlement cracking thermal conductivity degradation vii viii Preface Special Topics Swift ion irradiation effects Ion beam modification of materials Nanostructure design via irradiation Nuclear fuels and waste forms Radiation detectors dosimeters phosphors luminescent materials etc Radiation Effects in Solids G. J. Dienes, G. H. Vineyard, 1986 Radiation effects in solids George Julian Dienes, 1952 Studies in Radiation Effects in Solids George Julian Dienes, 1966 **Studies in Radiation Effects in Solids** Charles Alexander Moore, 1969 **Interaction of Radiation with Solids** Adli Bishay, 1967 Pt I Magnetic resonance pt II Electrical conductivity pt III Radiation effect I non crystalline solids pt IV Radiation effects II crystalline solids pt V Metals pt VI Spectroscopy pt VII Quantum electronics *Studies in Radiation Effects* George Julian Dienes, Studies in Radiation Effects in Solids. V. 1-, 1966 *Radiation Damage Effects in Solids* Haradewa Singha Wiraka, 2013 Public interest and concern about radiation damage effects has increased during recent times Nuclear radiation proved to be a precursor for the study of radiation damage effects in solids In general all types of radiation e g X ray gamma ray heavy ions fission fragments and neutrons produce damage effects in materials Radiation damage latent tracks in solids find applications in nuclear and elementary particle physics chemistry radiobiology earth sciences nuclear engineering and a host of other areas such as nuclear safeguards virus counting ion track filters uranium exploration and archaeology Radiation dosimetry and reactor shielding also involve concepts based on radiation damage in solids This special volume consists of ten

Chapters including Review and Research Papers on various topics in this field Review from Book News Inc Physical scientists known to be investigating the effects of radiation on material were invited to contribute research and review papers on the areas of their specialty The topics include ion irradiation effects in some electro active and engineering polymers studied by conventional and novel techniques spectroscopic investigations of radiation damage in glass used to immobilize radioactive waste energy loss for swift heavy ions in polymers as a new approach for effective charge parametrization the effect of nitrogen ion bombardment on optical and mechanical properties of ultra high molecular weight polyethylene and irradiation induced changes in semiconducting thin films

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## **Table of Contents Radiation Effects In Solids**

1. Understanding the eBook Radiation Effects In Solids
  - The Rise of Digital Reading Radiation Effects In Solids
  - Advantages of eBooks Over Traditional Books
2. Identifying Radiation Effects In Solids
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Radiation Effects In Solids
  - User-Friendly Interface
4. Exploring eBook Recommendations from Radiation Effects In Solids
  - Personalized Recommendations
  - Radiation Effects In Solids User Reviews and Ratings
  - Radiation Effects In Solids and Bestseller Lists
5. Accessing Radiation Effects In Solids Free and Paid eBooks
  - Radiation Effects In Solids Public Domain eBooks
  - Radiation Effects In Solids eBook Subscription Services
  - Radiation Effects In Solids Budget-Friendly Options

6. Navigating Radiation Effects In Solids eBook Formats
  - ePub, PDF, MOBI, and More
  - Radiation Effects In Solids Compatibility with Devices
  - Radiation Effects In Solids Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Radiation Effects In Solids
  - Highlighting and Note-Taking Radiation Effects In Solids
  - Interactive Elements Radiation Effects In Solids
8. Staying Engaged with Radiation Effects In Solids
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Radiation Effects In Solids
9. Balancing eBooks and Physical Books Radiation Effects In Solids
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Radiation Effects In Solids
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Radiation Effects In Solids
  - Setting Reading Goals Radiation Effects In Solids
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Radiation Effects In Solids
  - Fact-Checking eBook Content of Radiation Effects In Solids
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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