

MRS SYMPOSIUM PROCEEDINGS

Volume 537 - 1999 MRS Meeting

Amorphous and Heterogeneous Silicon Thin Films: Fundamentals to Devices — 1999

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Amorphous And Heterogeneous Silicon Thin Films

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Howard M. Branz, 1999 [Amorphous and Heterogeneous Silicon Thin Films: Fundamentals to Devices--1999; Proceedings of the Materials Research Society Symposium, 5-9 April 1999, San Francisco, California](#), 1999 *Amorphous and Heterogeneous Silicon Thin Films--2000: Proceedings of the Materials Research Society Symposium, 24-28 April 2000, San Francisco, California*, 2001 **Amorphous and Heterogeneous Silicon-Based Films - 2001:** Martin Stutzmann, James B. Boyce, J. David Cohen, Robert W. Collins, Jun-ichi Hanna, 2014-06-05 This book looks at the exchange of information on the physics and application of amorphous and microcrystalline silicon and presents exciting new developments Significant progress has been made in the high or even ultra high rate deposition of device quality amorphous and microcrystalline silicon in in situ growth characterization techniques and in state of the art computer modeling of deposition processes These issues are especially important for the successful future commercialization of silicon thin film devices The latest results concerning silicon thin film solar cells are highlighted Active matrix arrays for displays or sensors continue to be the second major application of thin silicon films and again much progress has been made in that area Topics include nucleation and growth novel concepts hot wire CVD high rate deposition growth of silicon and silicon alloy thin films crystallization silicon based alloys structural properties of heterogeneous silicon films dopants and impurities amorphous and silicon solar cells metastability hydrogen and metastability transport in c Si thin film transistors hydrogenation and oxidation defects and defect spectroscopy structural and electronic properties of thin silicon films heterojunctions TFTs and sensors amorphous to microcrystalline transition and structural relaxation and diffusion **Amorphous and Heterogeneous Silicon-Based Films - 2001: Volume 664** Martin Stutzmann, James B. Boyce, J. David Cohen, Robert W. Collins, Jun-ichi Hanna, 2001-10-15 This book looks at the exchange of information on the physics and application of amorphous and microcrystalline silicon and presents exciting new developments Significant progress has been made in the high or even ultra high rate deposition of device quality amorphous and microcrystalline silicon in in situ growth characterization techniques and in state of the art computer modeling of deposition processes These issues are especially important for the successful future commercialization of silicon thin film devices The latest results concerning silicon thin film solar cells are highlighted Active matrix arrays for displays or sensors continue to be the second major application of thin silicon films and again much progress has been made in that area Topics include nucleation and growth novel concepts hot wire CVD high rate deposition growth of silicon and silicon alloy thin films crystallization silicon based alloys structural properties of heterogeneous silicon films dopants and impurities amorphous and silicon solar cells metastability hydrogen and metastability transport in c Si thin film transistors

hydrogenation and oxidation defects and defect spectroscopy structural and electronic properties of thin silicon films heterojunctions TFTs and sensors amorphous to microcrystalline transition and structural relaxation and diffusion

Amorphous and Heterogeneous Silicon Thin Films: Fundamentals to Devices - 1999: Volume 557 Howard M. Branz, Robert W. Collins, Hiroaki Okamoto, Subhendu Guha, Ruud Schropp, 1999-12-17 Applications requiring large area semiconductor coverage rely increasingly on amorphous and heterogeneous silicon materials because they can be deposited at low cost on a variety of substrates This volume first published in 1999 covers the range from fundamental research to the device applications of these materials A special session on medium range order is featured and confirms the belief that ordering correlates with the electronic quality of a Si H films Important experimental observations on metastable effects in a Si H are also reported as are devices and processing strategies Topics include growth and properties high rate deposition recrystallization amorphization and porous silicon ordering and hydrogen metastability defects band tails and transport heterogeneous materials and devices thin film transistors and displays solar cells and detectors imagers and other devices

Amorphous and Heterogeneous Silicon-Based Films - 2002: J. David Cohen, John R. Abelson, Hideki Matsumura, John Robertson, 2014-06-05 This book on amorphous silicon technology shows a trend towards technologies based on amorphous and heterogeneous silicon solar cells TFTs imaging arrays sensors etc and brings together researchers from around the world to share their expanding expertise The book contains eleven chapters and focuses on basic mechanisms of growth as well as new approaches to film growth hot wire CVD produced amorphous and microcrystalline films and related subjects of film crystallization and recrystallization the electronic structure and transport properties of silicon based thin films are discussed together with hydrogen microstructure and metastability Silicon nitride four on alloys with germanium and two dealing predominantly with silicon carbide are looked at There is also focus on photovoltaic devices based on either amorphous or microcrystalline or mixed phase materials It also offers a look at thin film transistors as well as related types of imaging and sensing arrays and there are papers on novel device structures and new types of technologies being developed using amorphous heterogeneous thin film silicon based materials

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Annual Review of Materials Research, 2001

Nanostructured Materials for Solar Energy Conversion Tetsuo Soga, 2006-12-14 Nanostructured Materials for Solar Energy Conversion covers a wide variety of materials and device types from inorganic materials to organic materials This book deals with basic semiconductor physics modelling of nanostructured solar cell nanostructure of conventional solar cells

such as silicon CIS and CdTe dye sensitized solar cell organic solar cell photosynthetic materials fullerene extremely thin absorber ETA solar cell quantum structured solar cell intermediate band solar cell carbon nanotube etc including basic principle and the latest results There are many books written on conventional p n junction solar cells but few books focus on new concepts in this area Focuses on the use of nanostructured materials for solar energy Looks at a wide variety of materials and device types Covers both organic and inorganic materials *High-temperature Ordered Intermetallic Alloys IX* Joachim H. Schneibel,2001 **Chemical Abstracts** ,1920 *Microcrystalline and Nanocrystalline Semiconductors* ,2001

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Table of Contents Amorphous And Heterogeneous Silicon Thin Films

1. Understanding the eBook Amorphous And Heterogeneous Silicon Thin Films
 - The Rise of Digital Reading Amorphous And Heterogeneous Silicon Thin Films
 - Advantages of eBooks Over Traditional Books
2. Identifying Amorphous And Heterogeneous Silicon Thin Films
 - 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 Amorphous And Heterogeneous Silicon Thin Films
 - User-Friendly Interface
4. Exploring eBook Recommendations from Amorphous And Heterogeneous Silicon Thin Films
 - Personalized Recommendations
 - Amorphous And Heterogeneous Silicon Thin Films User Reviews and Ratings
 - Amorphous And Heterogeneous Silicon Thin Films and Bestseller Lists
5. Accessing Amorphous And Heterogeneous Silicon Thin Films Free and Paid eBooks
 - Amorphous And Heterogeneous Silicon Thin Films Public Domain eBooks
 - Amorphous And Heterogeneous Silicon Thin Films eBook Subscription Services
 - Amorphous And Heterogeneous Silicon Thin Films Budget-Friendly Options

6. Navigating Amorphous And Heterogeneous Silicon Thin Films eBook Formats
 - ePub, PDF, MOBI, and More
 - Amorphous And Heterogeneous Silicon Thin Films Compatibility with Devices
 - Amorphous And Heterogeneous Silicon Thin Films Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Amorphous And Heterogeneous Silicon Thin Films
 - Highlighting and Note-Taking Amorphous And Heterogeneous Silicon Thin Films
 - Interactive Elements Amorphous And Heterogeneous Silicon Thin Films
8. Staying Engaged with Amorphous And Heterogeneous Silicon Thin Films
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Amorphous And Heterogeneous Silicon Thin Films
9. Balancing eBooks and Physical Books Amorphous And Heterogeneous Silicon Thin Films
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Amorphous And Heterogeneous Silicon Thin Films
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Amorphous And Heterogeneous Silicon Thin Films
 - Setting Reading Goals Amorphous And Heterogeneous Silicon Thin Films
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Amorphous And Heterogeneous Silicon Thin Films
 - Fact-Checking eBook Content of Amorphous And Heterogeneous Silicon Thin Films
 - 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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