

Amorphous Silicon Research

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Amorphous Silicon Technology 1995

Joachim N. Burghartz



Amorphous Silicon Technology 1995:

Amorphous Silicon Technology, 1995 Michael Hack,1995 **Amorphous Silicon Technology 1995: Volume 377**
Michael Hack,Arun Madan,Akihisa Matsuda,Martin Powell,Eric A. Schiff,1995-11-20 Amorphous silicon continues to make great strides in its commercialization particularly its use in thin film transistors TFTs for active matrix liquid crystal displays AMLCDs This book reports on devices incorporating amorphous silicon a Si as well as on the continuing efforts to understand the structure and properties of the broad range of a Si based materials Device reports range from new concepts such as photovoltaic electrochromic window coatings to current products such as active matrix liquid crystal displays In the middle ground are amorphous silicon sensors Sensor arrays based on a Si pin diodes are in an advanced state of development and will be used both for monochromatic applications such as x ray imaging as well as for color scanning Topics include deposition studies plasma and films fundamental studies and defects hydrogen s role and metastability optoelectronic properties and transport studies modified band gap materials and doping studies solar cells thin film transistors image sensors and novel devices flat panel displays **Amorphous Silicon Technology** ,1991 *Proceedings of the Third Symposium on Thin Film Transistor Technologies* Yue Kuo,1997 **Thin-Film Transistors** Cherie R. Kagan,Paul Andry,2003-02-25 This is a single source treatment of developments in TFT production from international specialists It interweaves overlapping areas in multiple disciplines pertinent to transistor fabrication and explores the killer application of amorphous silicon transistors in active matrix liquid crystal displays It evaluates the preparation of polycrystallin
Photovoltaic Materials Richard H Bube,1998-05-30 Research and development of photovoltaic solar cells is playing an ever larger practical role in energy supply and ecological conservation all over the world Many materials science problems are encountered in understanding existing solar cells and the development of more efficient less costly and more stable cells This important and timely book provides a historical overview but concentrates primarily on exciting developments in the last decade It describes the properties of the materials that play an important role in photovoltaic applications the solar cell structures in which they are used and the experimental and theoretical developments that have led to the most promising contenders a **Guide to State-of-the-Art Electron Devices** Joachim N. Burghartz,2013-03-19 Winner 2013 PROSE Award Engineering and Technology Concise high quality and comparative overview of state of the art electron device development manufacturing technologies and applications Guide to State of the Art Electron Devices marks the 60th anniversary of the IRE electron devices committee and the 35th anniversary of the IEEE Electron Devices Society as such it defines the state of the art of electron devices as well as future directions across the entire field Spans full range of electron device types such as photovoltaic devices semiconductor manufacturing and VLSI technology and circuits covered by IEEE Electron and Devices Society Contributed by internationally respected members of the electron devices community A timely desk reference with fully integrated colour and a unique lay out with sidebars to highlight the key terms Discusses the

historical developments and speculates on future trends to give a more rounded picture of the topics covered A valuable resource R engineers in the semiconductor industry applied scientists circuit designers Masters students in power electronics and members of the IEEE Electron Device Society

Introduction to Green Chemistry John Andraos, Albert S. Matlack, 2022-03-09 Interest in green chemistry and clean processes has grown so much in recent years that topics such as fluororous biphasic catalysis metal organic frameworks and process intensification which were barely mentioned in the First Edition have become major areas of research In addition government funding has ramped up the development of fuel cells and biofuels This reflects the evolving focus from pollution remediation to pollution prevention Copiously illustrated with more than 800 figures the Third Edition provides an update from the frontiers of the field It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry

NEW AND EXPANDED RESEARCH TOPICS Metal organic frameworks Metrics Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale

UPDATED AND EXPANDED CURRENT EVENTS TOPICS Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Long Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society

Introduction to Green Chemistry Albert Matlack, 2010-04-05 The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Longer Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society Copiously illustrated with over 800 figures this second edition provides an update from the frontiers of the field

Flat Panel Display Materials II: Volume 424 Miltiadis K. Hatalis, 1997-02-12 The field of flat panel displays is experiencing a rapid growth which is currently expanding from initial portable computer applications to include display applications for desktop computers and a wide array of consumer and industrial products The industrial focus has been focused on active matrix liquid crystal displays AMLCDs and that is reflected in this volume where more than half of the papers are related to AMLCD technology New emerging flat panel display technologies however such as field emissive

displays FEDs and new organic light emitting display materials are also covered Topics include amorphous silicon thin film transistor materials and technology polycrystalline silicon thin film transistor materials and technology liquid crystal display materials and technology transparent conducting oxides field emission display materials and technology and other emissive display materials

Metastable Phases and Microstructures: Volume 400 Rüdiger Bormann,1996-07-25 Materials with metastable structures and microstructures have been used with success to create unusual structural and functional properties and property combinations Highly nonequilibrium technologies for creating metastable materials have been devised which allow materials to be prepared far away from the thermodynamic equilibrium Using these methods materials can now be designed to possess specific properties tailored to fit an application rather than fitting an application to the properties of available materials However as these materials are metastable with respect to structural and compositional changes under temperature there is great concern for understanding and controlling their limitations This book features both fundamental as well as applied aspects of the subject by stressing the structure property relationships the conditions for stability of these materials and the requirements for technological applications In addition to the synthesis processing characterization properties and applications of such materials attention is also focused on the modelling of structures phenomena and processes Topics include synthesis and processing thermodynamic and kinetics phase transformations and properties and applications

Handbook of Photovoltaic Science and Engineering Antonio Luque,Steven Hegedus,2011-01-31 The most comprehensive authoritative and widely cited reference on photovoltaic solar energy Fully revised and updated the Handbook of Photovoltaic Science and Engineering Second Edition incorporates the substantial technological advances and research developments in photovoltaics since its previous release All topics relating to the photovoltaic PV industry are discussed with contributions by distinguished international experts in the field Significant new coverage includes three completely new chapters and six chapters with new authors device structures processing and manufacturing options for the three major thin film PV technologies high performance approaches for multijunction concentrator and space applications new types of organic polymer and dye sensitized solar cells economic analysis of various policy options to stimulate PV growth including effect of public and private investment Detailed treatment covers scientific basis of the photovoltaic effect and solar cell operation the production of solar silicon and of silicon based solar cells and modules how choice of semiconductor materials and their production influence costs and performance making measurements on solar cells and modules and how to relate results under standardised test conditions to real outdoor performance photovoltaic system installation and operation of components such as inverters and batteries architectural applications of building integrated PV Each chapter is structured to be partially accessible to beginners while providing detailed information of the physics and technology for experts Encompassing a review of past work and the fundamentals in solar electric science this is a leading reference and invaluable resource for all practitioners consultants researchers and students in the PV

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