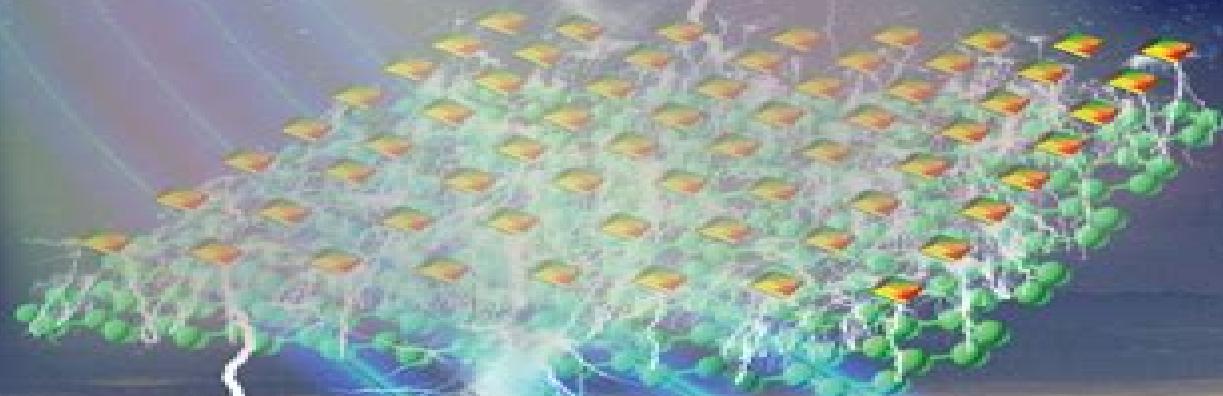


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# ADVANCED OPTICAL MATERIALS



# Optical Effects In Amorphous Semiconduct

**Kazuo Morigaki, Sandor Kugler, Koichi  
Shimakawa**

## Optical Effects In Amorphous Semiconduct:

**Optical Effects in Amorphous Semiconductors** P. C. Taylor,S. G. Bishop,1984      **Optical Effects in Amorphous Semiconductors** Philip Craig Taylor,S. G. Bishop,1984      Optical effects in amorphous semiconductors: Aip conference proceedings P. C. Taylor,S. G. Bishop,1984      Optical Properties of Crystalline and Amorphous Semiconductors Sadao Adachi,2012-12-06 Optical Properties of Crystalline and Amorphous Semiconductors Materials and Fundamental Principles presents an introduction to the fundamental optical properties of semiconductors This book presents tutorial articles in the categories of materials and fundamental principles Chapter 1 optical properties in the reststrahlen region Chapter 2 those in the interband transition region Chapters 3 and 4 and at or below the fundamental absorption edge Chapter 5 Optical Properties of Crystalline and Amorphous Semiconductors Materials and Fundamental Principles is presented in a form which could serve to teach the underlying concepts of semiconductor optical properties and their implementation This book is an invaluable resource for device engineers solid state physicists material scientists and students specializing in the fields of semiconductor physics and device engineering      Physics Of Non-conventional Energy Sources And Material Science For Energy - Proceedings Of The International Workshop Giuseppe Furlan,A A M Sayigh,N A Mancini,Bernhard O Seraphin,1987-06-01 An up to date account on the advancement in science and technology and the most recent developments on materials used for solar energy devices is presented with detailed description in the following areas selective coating for heating and cooling photovoltaic conversion and comparison among single crystalline silicon concentrating cells and amorphous silicon and advance tandem coating for selective spectrum which can be used for greenhouse homes and in energy conservation      **Disordered Semiconductors** Marc A. Kastner,Stadford R. Ovshinsky,Gordon A. Thomas,2012-12-06 Twenty four years ago Hellmut Fritzsche came to our laboratory to evaluate our work in amorphous materials He came many times sometimes bringing his violin to play with our youngest son to talk to help to discover and to teach The times with him were always exciting and rewarding There was a camaraderie in the early years that has continued and a friendship that has deepened among Iris and me and Hellmut Sybille and their children The vision that Hellmut Fritzsche shared with me the many important contributions he made the science that he helped so firmly to establish the courage he showed in the time of our adversity and the potential that he recognized put all of us in the amorphous field not only his close friends and collaborators in his debt He helped make a science out of intuition and played an important role not only in the experimental field but also in the basic theoretical aspects It has been an honor to work with Hellmut through the years      Science And Technology Of An American Genius, The: Stanford R Ovshinsky Brian Schwartz,Hellmut Fritzsche,2008-10-09 This book highlights the achievements of the self taught inventor scientist manufacturer and entrepreneur Stanford R Ovshinsky This remarkable individual could without special training compete with the well funded establishments of learning and industry in the second half of the last century and leave us an incredible legacy of brilliant

innovations with a lasting impact on our lives His achievements extend over amazingly diverse fields and have or are prone to create new industries of great societal value The phase change memories of commonly used rewritable CDs and DVDs as well as of new flash memories are his invention so are the Ni Metal hydride batteries which are the enabling batteries for electric and hybrid electric vehicles The future hydrogen economy will utilize his efficient and safe hydrogen storage alloys He has developed light and ultralight photovoltaic solar panels for converting sunlight into electricity and built the largest manufacturing facility for thin film flexible solar roofing materials A common theme of his inventions is the synthesis of new materials utilizing novel aspects of structural and compositional disorder The book explains for each of Ovshinsky's innovations the essence of his pioneering ideas and inventions These introductions are followed by a selection of Ovshinsky's seminal publications and for each subject category a list of his patents which reveal the inventive mind of this unusually creative person Ovshinsky's example of gaining a deep understanding of the science underlying his inventions his perseverance as well as his ability to attract and inspire talented collaborators will be a role model for entrepreneurs of this century

Physics of Disordered Materials David Adler, 2012-12-06 This volume and its two companion volumes entitled Tetrahedrally Bonded Amorphous Semiconductors and Localization and Metal Insulator Transitions are our way of paying special tribute to Sir Nevill Mott and to express our heartfelt wishes to him on the occasion of his eightieth birthday Sir Nevill has set the highest standards as a physicist teacher and scientific leader Our feelings for him include not only the respect and admiration due a great scientist but also a deep affection for a great human being who possesses a rare combination of outstanding personal qualities We thank him for enriching our lives and we shall forever carry cherished memories of this noble man Scientists best express their thanks by contributing their thoughts and observations to a Festschrift This one honoring Sir Nevill fills three volumes with literally hundreds of authors meeting a strict deadline The fact that contributions poured in from all parts of the world attests to the international cohesion of our scientific community It is a tribute to Sir Nevill's stand for peace and understanding transcending national borders The editors wish to express their gratitude to Ghazaleh Koefod for her diligence and expertise in deciphering and typing many of the papers as well as helping in numerous other ways The blame for the errors that remain belongs to the editors

**Proceedings of the 17th International Conference on the Physics of Semiconductors** J.D. Chadi, W.A. Harrison, 2013-12-01 The Proceedings of the 17th International Conference on the Physics of Semiconductors are contained in this volume A record 1050 scientists from 40 countries participated in the Conference which was held in San Francisco August 6-10, 1984 The Conference was organized by the ICPS Committee and sponsored by the International Union of Pure and Applied Physics and other professional government and industrial organizations listed on the following pages Papers representing progress in all aspects of semiconductor physics were presented Far more abstracts (765) than could be presented in a five day meeting were considered by the International Program Committee A total of 350 papers consisting of 5 plenary, 35 invited and 310

contributed were presented at the Conference in either oral or poster sessions All but a few of the papers were submitted and have been included in these Proceedings An interesting shift in subject matter in comparison with earlier Conferences is manifested by the large number of papers on surfaces interfaces and quantum wells To facilitate the use of the Proceedings in finding closely related papers among the sometimes relatively large number of contributions within a main subject area we chose not to arrange the papers strictly according to the Conference schedule We have organized the book as can be seen from the Contents into specific subcategories and subdivisions within each major category Plenary and invited papers have been placed together with the appropriate contributed papers *Stanford R. Ovshinsky* Stanford R. Ovshinsky,2008 This book highlights the achievements of the self taught inventor scientist manufacturer and entrepreneur Stanford R Ovshinsky This remarkable individual could without special training compete with the well funded establishments of learning and industry in the second half of the last century and leave us an incredible legacy of brilliant innovations with a lasting impact on our lives His achievements extend over amazingly diverse fields and have or are prone to create new industries of great societal value The phase change memories of commonly used rewritable CDs and DVDs as well as of new flash memories are his invention so are the Ni Metal hydride batteries which are the enabling batteries for electric and hybrid electric vehicles The future hydrogen economy will utilize his efficient and safe hydrogen storage alloys He has developed light and ultralight photovoltaic solar panels for converting sunlight into electricity and built the largest manufacturing facility for thin film flexible solar roofing materials A common theme of his inventions is the synthesis of new materials utilizing novel aspects of structural and compositional disorder The book explains for each of Ovshinsky s innovations the essence of his pioneering ideas and inventions These introductions are followed by a selection of Ovshinsky s seminal publications and for each subject category a list of his patents which reveal the inventive mind of this unusually creative person Ovshinsky s example of gaining a deep understanding of the science underlying his inventions his perseverance as well as his ability to attract and inspire talented collaborators will be a role model for entrepreneurs of this century **Disordered Materials** Stadford R. Ovshinsky,2012-12-06 Landmark contributions to science and mechanisms for the origin of the phenomena and technology are rarely recognized at the time of reached important conclusions about the physical publication Few people even in technical areas nature of the materials at equilibrium and their recogni zed the importance of developments such as electronic nonequilibrium properties Many of these the transistor the laser or electrophotography ideas were condensed into a publication for Physical until well after their successful demonstration Review Letters paper 1 in this collection This So called experts in fact tend to resist new paper immediately attracted attention to the field inventions a natural instinct based on a combina and directly lead to the initiation of large research tion of fear of obsolescent expertise and jealousy efforts at both industrial laboratories and univer arising from lack of active participation in the ties throughout the world Inevitably there was discovery the usual amount of controversy with many experts Denigration of new ideas is a relatively

simultaneously taking positions 2 and 3 above safe modus operandi since the vast majority It has now been well over 20 years since eventually are abandoned well short of commerciality the original publication date and an objective view However a successful device can be identified by can be taken in hindsight

### **Properties and Characteristics of Optical Glass**

,1994     **Optical Materials** ,1986     *Chalcogenide Glasses* J-L Adam,X. Zhang,2014-02-14 The unique properties and functionalities of chalcogenide glasses make them promising materials for photonic applications Chalcogenide glasses are transparent from the visible to the near infrared region and can be moulded into lenses or drawn into fibres They have useful commercial applications as components for lenses for infrared cameras and chalcogenide glass fibres and optical components are used in waveguides for use with lasers for optical switching chemical and temperature sensing and phase change memories Chalcogenide glasses comprehensively reviews the latest technological advances in this field and the industrial applications of the technology Part one outlines the preparation methods and properties of chalcogenide glasses including the thermal properties structure and optical properties before going on to discuss mean coordination and topological constraints in chalcogenide network glasses and the photo induced phenomena in chalcogenide glasses This section also covers the ionic conductivity and physical aging of chalcogenide glasses deposition techniques for chalcogenide thin films and transparent chalcogenide glass ceramics Part two explores the applications of chalcogenide glasses Topics discussed include rare earth doped chalcogenide glass for lasers and amplifiers the applications of chalcogenide glasses for infrared sensing microstructured optical fibres for infrared applications and chalcogenide glass waveguide devices for all optical signal processing This section also discusses the control of light on the nanoscale with chalcogenide thin films chalcogenide glass resists for lithography and chalcogenide for phase change optical and electrical memories The book concludes with an overview of chalcogenide glasses as electrolytes for batteries Chalcogenide glasses comprehensively reviews the latest technological advances and applications of chalcogenide glasses and is an essential text for academics materials scientists and electrical engineers working in the photonics and optoelectronics industry Outlines preparation methods and properties and explores applications of chalcogenide glasses Covers the ionic conductivity and physical aging of chalcogenide glasses deposition techniques for chalcogenide thin films and transparent chalcogenide glass ceramics Discusses the control of light on the nanoscale with chalcogenide thin films chalcogenide glass resists for lithography and chalcogenide for phase change optical and electrical memories

### **Band Tailings and Deep Defects in Semiconductors** A. A. Teate,N. C. Halder,1996

The present textbook treats the effects of temperature upon weakly disordered hydrogenated amorphous silicon and hydrogenated amorphous germanium as well as the effect of weak disorder upon more complex systems such as GaAs and Al<sub>2</sub>Gal<sub>x</sub>As alloy The effects of disorder induced band tailing upon deep levels in compound semiconductor alloys are also studied     Energy Research Abstracts ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from

DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Amorphous Semiconductors** Kazuo Morigaki,Sandor Kugler,Koichi Shimakawa,2017-03-06 Amorphous semiconductors are substances in the amorphous solid state that have the properties of a semiconductor and which are either covalent or tetrahedrally bonded amorphous semiconductors or chalcogenide glasses Developed from both a theoretical and experimental viewpoint Deals with amongst others preparation techniques structural optical and electronic properties and light induced phenomena Explores different types of amorphous semiconductors including amorphous silicon amorphous semiconducting oxides and chalcogenide glasses Applications include solar cells thin film transistors sensors optical memory devices and flat screen devices including televisions *Journal of Applied Photographic Engineering* ,1977 The Conference Record of the Eighteenth IEEE Photovoltaic Specialists Conference--1985 ,1985 Diffusion and Defect Data ,1996

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