



Laser Crystallization Of Silicon

Kenneth E. Bean, George A. Rozgonyi



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Laser Crystallization of Silicon - Fundamentals to Devices Norbert H. Nickel, 2003-12-12 This book on the Laser Crystallization of Silicon reviews the latest experimental and theoretical studies in the field It has been written by recognised global authorities and covers the most recent phenomena related to the laser crystallization process and the properties of the resulting polycrystalline silicon Reflecting the truly interdisciplinary nature of the field that the series covers this volume will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Valuable applications for industry particularly in the fabrication of thin film electronics Each chapter has been peer reviewed An important and timely contribution to the semiconductor literature

Line-shaped Continuous Wave Laser Crystallization of Silicon on Glass Sven Kühnappel, 2016 **Semiconductors and Semimetals: Laser crystallization of silicon** Robert K. Willardson, Albert C. Beer, 1966 *Thin Film Transistors: Polycrystalline silicon thin film transistors* Yue Kuo, 2004 This is the first reference on amorphous silicon and polycrystalline silicon thin film transistors that gives a systematic global review of all major topics in the field These volumes include sections on basic materials and substrates properties fundamental device physics critical fabrication processes structures a Si H dielectric metallization catalytic CVD and existing and new applications The chapters are written by leading researchers who have extensive experience with reputed track records Thin Film Transistors provides practical information on preparing individual functional a Si H TFTs and poly Si TFTs as well as large area TFT arrays Also covered are basic theories on the a Si H TFT operations and unique material characteristics Readers are also exposed to a wide range of existing and new applications in industries

Technology and Applications of Amorphous Silicon Robert A. Street, 2013-06-29 Amorphous silicon has enabled a new technology for large area electronics with major applications in liquid crystal displays image sensing and solar power conversion This book presents a broad description of the current technology and its future potential so that the reader can understand how the particular properties of amorphous silicon lead to unique applications Topics covered include the design of the amorphous silicon transistor and sensor devices the range of matrix addressed arrays and other systems that can be fabricated and the performance of the various application areas **Semiconductors and Semimetals** Robert K. Willardson, Albert C. Beer, 1966 **Silicon Based Thin Film Solar Cells** Roberto Murri, 2013-03-20 Silicon Based Thin Film Solar Cells explains concepts related to technologies for silicon Si based photovoltaic applications Topics in this book focus on new concept solar cells These kinds of cells can make photovoltaic power production an economically viable option in comparison to the bulk crystalline semiconductor technology industry A transition from bulk crystalline Si solar cells toward thin film technologies reduces usage of active material and introduces new concepts based on nanotechnologies Despite its importance the scientific development and understanding of new solar cells is not very advanced and educational resources for specialized engineers and scientists are required This textbook presents the fundamental scientific aspects of Si thin films

growth technology together with a clear understanding of the properties of the material and how this is employed in new generation photovoltaic solar cells The textbook is a valuable resource for graduate students working on their theses young researchers and all people approaching problems and fundamental aspects of advanced photovoltaic conversion **Thin film transistors. 1. Amorphous silicon thin film transistors** Yue Kuo, 2004 This is the first reference on amorphous silicon and polycrystalline silicon thin film transistors that gives a systematic global review of all major topics in the field These volumes include sections on basic materials and substrates properties fundamental device physics critical fabrication processes structures a Si H dielectric metallization catalytic CVD and existing and new applications The chapters are written by leading researchers who have extensive experience with reputed track records Thin Film Transistors provides practical information on preparing individual functional a Si H TFTs and poly Si TFTs as well as large area TFT arrays Also covered are basic theories on the a Si H TFT operations and unique material characteristics Readers are also exposed to a wide range of existing and new applications in industries **Excimer Lasers** L.D. Laude, 2013-04-17 Among the many intense light sources excimer lasers have a unique set of properties that place them at the forefront of tooling for material processing Their extreme versatility means that they can be used in many areas of materials science and medicine But three conditions need to be fulfilled in order that their versatility be truly appreciated and exploited the characteristics and limitations of the sources must be known the basic excimer laser processes should become reasonably widely known and problems in search of a solution should be clearly identified Excimer Lasers covers all three of these points in an instructive and logical way Probably for the first time both instrumental and fundamental aspects of excimer laser interaction with matter are presented side by side with examples drawn from the widest range of materials The articles gathered here are tutorial in their nature thus making them suitable for a wide readership from recent graduates and postgraduate students to those established scientists entering the field all of whom could not find a better nor more authoritative work with which to start their reading

VLSI Science and Technology, 1984 **VLSI Science and Technology/1984** Kenneth E. Bean, George A. Rozgonyi, 1984 *Introduction to Thin Film Transistors* S.D. Brotherton, 2013-04-16 Introduction to Thin Film Transistors reviews the operation application and technology of the main classes of thin film transistor TFT of current interest for large area electronics The TFT materials covered include hydrogenated amorphous silicon a Si H poly crystalline silicon poly Si transparent amorphous oxide semiconductors AOS and organic semiconductors The large scale manufacturing of a Si H TFTs forms the basis of the active matrix flat panel display industry Poly Si TFTs facilitate the integration of electronic circuits into portable active matrix liquid crystal displays and are increasingly used in active matrix organic light emitting diode AMOLED displays for smart phones The recently developed AOS TFTs are seen as an alternative option to poly Si and a Si H for AMOLED TV and large AMLCD TV applications respectively The organic TFTs are regarded as a cost effective route into flexible electronics As well as treating the highly divergent preparation and properties of these materials the physics of the

devices fabricated from them is also covered with emphasis on performance features such as carrier mobility limitations leakage currents and instability mechanisms The thin film transistors implemented with these materials are the conventional insulated gate field effect transistors and a further chapter describes a new thin film transistor structure the source gated transistor SGT The driving force behind much of the development of TFTs has been their application to AMLCDs and there is a chapter dealing with the operation of these displays as well as of AMOLED and electrophoretic displays A discussion of TFT and pixel layout issues is also included For students and new comers to the field introductory chapters deal with basic semiconductor surface physics and with classical MOSFET operation These topics are handled analytically so that the underlying device physics is clearly revealed These treatments are then used as a reference point from which the impact of additional band gap states on TFT behaviour can be readily appreciated This reference book covering all the major TFT technologies will be of interest to a wide range of scientists and engineers in the large area electronics industry It will also be a broad introduction for research students and other scientists entering the field as well as providing an accessible and comprehensive overview for undergraduate and postgraduate teaching programmes

Silicon Compatible Materials, Processes, and Technologies for Advanced Integrated Circuits and Emerging Applications F. Roozeboom, 2011-04-25

This issue of ECS Transactions covers emerging materials process and technology options for large area silicon wafers to enhance advanced IC performance or to enable revolutionary device structures with entirely new functionalities Topics high mobility channel materials e g strained Si Ge compound semiconductors and graphene high performance gate stacks and low resistivity junctions and contacts on new Si compatible materials new materials and processes for 3 D TSV integration synthesis of nano structures including wires pores and membranes of Si compatible materials novel MEMS NEMS structures and their integration with the mainstream Si IC technology

Thin Film Transistor Technology 8 Yue Kuo, 2006 This issue includes fundamental and applied topics on materials processes devices circuits and new and novel applications related to TFTs

Silicon-on-insulator Technology and Devices XII George K. Celler, Sorin Cristoloveanu, Electrochemical Society. Meeting, 2005

Near Infrared Detectors Based on Silicon Supersaturated with Transition Metals Daniel Montero Álvarez, 2021-01-08 This thesis makes a significant contribution to the development of cheaper Si based Infrared detectors operating at room temperature In particular the work is focused in the integration of the Ti supersaturated Si material into a CMOS Image Sensor route the technology of choice for imaging nowadays due to its low cost and high resolution First the material is fabricated using ion implantation of Ti atoms at high concentrations Afterwards the crystallinity is recovered by means of a pulsed laser process The material is used to fabricate planar photodiodes which are later characterized using current voltage and quantum efficiency measurements The prototypes showed improved sub bandgap responsivity up to 0.45 eV at room temperature The work is further supported by a collaboration with STMicroelectronics where the supersaturated material was integrated into CMOS based sensors at industry level The results

show that Ti supersaturated Si is compatible in terms of contamination process integration and uniformity The devices showed similar performance to non implanted devices in the visible region This fact leaves the door open for further integration of supersaturated materials into CMOS Image Sensors Thin-Film Transistors Cherie R. Kagan,Paul Andry,2003-02-25 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 *Silicon* Paul Siffert,Eberhard Krimmel,2013-03-09 Silicon The evolution and development of humanity are commonly characterized by the key words Stone Age Bronze Age and Iron Age that is characterized by materials Curse or benefit to mankind The discovery and utilization of semiconductors particularly of silicon revolutionized our living conditions society social life and maxims in a few years even more than what happened during all the material specified periods before Perhaps one day our descendants will call the period at whose beginning we live the Silicon Age However to be correct the present period is characterized of the discovery and development of a whole bunch of new materials and their utilization These materials are new alloys ceramics the plastics and synthetics produced by organic chemistry composites biomaterials and the materials of microelectronics nanotechnology and space science The materials of microelectronics are silicon other elemental semiconductors compound semiconductors and organic semiconductors With regard to the interdependencies of these materials and their utilization silicon plays a central role as one of the base materials for electronics Have we lived in the Silicon Age for only half a century and already jumped into a new age of synthetic organic materials for electronics We do not know The first intensive work on silicon started more than 50 years ago One of the European semiconductor laboratories was installed by the industry in a centuries old little countryside castle in Pretzfeld in the north east of Bavaria Germany *Proceedings of the 35th International MATADOR Conference* Srichand Hinduja,Kuang-Chao Fan,2007-06-30 Presented here are 88 refereed papers given at the 35th MATADOR Conference held at the National University of Taiwan in Taipei Taiwan in July 2007 The MATADOR series of conferences covers the topics of Manufacturing Automation and Systems Technology Applications Design Organisation and Management and Research The proceedings of this conference contains original papers contributed by researchers from many countries on different continents The papers cover the principles techniques and applications associated with manufacturing processes technology system design and integration and computer applications and management The papers in this volume reflect the importance of manufacturing in international wealth creation the emerging fields of micro and nano manufacture the increasing trend towards the fabrication of parts using additive processes the growing demand for precision engineering and part inspection techniques measurement techniques and equipment **Subsecond Annealing of Advanced Materials** Wolfgang Skorupa,Heidemarie Schmidt,2013-12-16 The thermal processing of materials ranges from few fem to seconds by Swift Heavy Ion Implantation to about one second using advanced Rapid Thermal Annealing This book

offers after an historical excursus selected contributions on fundamental and applied aspects of thermal processing of classical elemental semiconductors and other advanced materials including nanostructures with novel optoelectronic magnetic and superconducting properties Special emphasis is given on the diffusion and segregation of impurity atoms during thermal treatment A broad range of examples describes the solid phase and or liquid phase processing of elemental and compound semiconductors dielectric composites and organic materials

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