

MRS SYMPOSIUM PROCEEDINGS

Volume 100 • 1987 MRS Meeting

Fundamentals of Beam-Solid Interactions and Transient Thermal Processing

EDITORS

Michael J. Aziz

Lynn P. Baker

Berni Sundaker

CAMBRIDGE

A publication of the



MATERIALS RESEARCH SOCIETY

Fundamentals Of Beamsolid Interactions And Transient Thermal Processing

**Michael J. Aziz, Lynn E. Rehn, Bernd
Stritzker, MATERIALS RESEARCH
SOCIETY PITTSBURGH PA.**



Fundamentals Of Beam-Solid Interactions And Transient Thermal Processing:

Fundamentals of Beam-Solid Interactions and Transient Thermal Processing: Michael J. Aziz, Lynn E. Rehn, Bernd Stritzker, 2014-06-05 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Fundamentals of Beam-Solid Interactions and Transient Thermal Processing: Volume 100 Michael J. Aziz, Lynn E. Rehn, Bernd Stritzker, 1988-04 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Rapid Thermal Processing Richard B. Fair, 2012-12-02 This is the first definitive book on rapid thermal processing RTP an essential manufacturing technology for single wafer processing in highly controlled environments Written and edited by nine experts in the field this book covers a range of topics for academics and engineers alike moving from basic theory to advanced technology for wafer manufacturing The book also provides new information on the suitability of RTP for thin film deposition junction formation silicides epitaxy and in situ processing Complete discussions on equipment designs and comparisons between RTP and other processing approaches also make this book useful for supplemental information on silicon processing VLSI processing and integrated circuit engineering

Energy Beam-solid Interactions and Transient Thermal Processing, 1985, IV Van Tran Nguyen, A. G. Cullis, 1985

Reduced Thermal Processing for ULSI R.A. Levy, 2012-12-06 As feature dimensions of integrated circuits shrink the associated geometrical constraints on junction depth impose severe restrictions on the thermal budget for processing such devices Furthermore due to the relatively low melting point of the first aluminum metallization level such restrictions extend to the fabrication of multilevel structures that are now essential in increasing packing density of interconnect lines The fabrication of ultra large scale integrated ULSI devices under thermal budget restrictions requires the reassessment of existing and the development of new microelectronic materials and processes This book addresses three broad but interrelated areas The first area focuses on the subject of rapid thermal processing RTP a technology that allows minimization of processing time while relaxing the constraints on high temperature Initially developed to limit dopant redistribution current applications of RTP are shown here to encompass annealing oxidation nitridation silicidation glass reflow and contact sintering In a second but complementary area advances in equipment design and performance of rapid thermal processing equipment are presented in conjunction with associated issues of temperature measurement and control Defect mechanisms are assessed together with the resulting properties of rapidly deposited and processed films The concept of RTP integration for a full CMOS device process is also examined together with its impact on device characteristics

Energy Research Abstracts, 1990

Scientific and Technical Aerospace Reports, 1988-04

Deep Implants: Fundamentals and Applications G.G. Bentini, A. Golanski, S. Kalbitzer, 1989-01-01 Deep implants are produced by the high energy implantation of impurities in a host material The thus created subsurface layers have properties that are different from the very surface and the bulk and show great promise for application in the electronics industry

Fundamentals of

Beam-Solid Interactions and Transient Thermal Processing Symposium Held in Boston, Massachusetts on November 30-December 30 1987. Volume 100. Materials Research Society Symposium Proceedings Michael J. Aziz, Lynn E. Rehn, Bernd Stritzker, MATERIALS RESEARCH SOCIETY PITTSBURGH PA., 1988 The material covered in this symposium focused on two distinct areas The first was phase transformations induced by ion or electron bombardment including amorphization and interface motion The second was the behavior of solids during various forms of annealing and quenching ranging in duration from femtoseconds to hours such as rapid solidification following pulsed laser melting and rapid thermal annealing The overlap between these two areas consisted of topics such as motion of the crystal amorphous interface during ion bombardment at elevated temperatures The symposium revealed how these fields have matured over the last decade and highlighted many new and several older yet unanswered questions that might be addressed in future research Keywords Phase transformations Ion bombardment Electron bombardment Annealing Quenching Solidification Interfaces

Publications of Los Alamos Research Los Alamos National Laboratory, 1989 *Technical Reports Awareness Circular* : TRAC. , 1988-08 **Time-resolved Diffraction** J. R Helliwell, P. M. Rentzepis, 1997-12-18 The acceleration of the technical capabilities of X ray electron and neutron diffraction techniques in recent years has been driven by developments in synchrotron and neutron sources detectors and computers These allow the rapid and repeated acquisition of diffraction data as a chemical and biological structural process proceeds following its initiation This opens up completely new studies from timescales ranging from the sub picosecond at the fastest through all the time domains up to kiloseconds for the slower molecular processes **Beam-Solid Interactions:: Volume 157** James A. Knapp, Peter Børgesen, Raymond A. Zuhr, 1990-07-13 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Phase Formation and Modification by Beam-Solid Interactions: Volume 235 Gary S. Was, Lynn E. Rehn, David M. Follstaedt, 1992-04-10 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Lubrication Engineering , High Temperature Aluminides and Intermetallics** S.H. Whang, D.P. Pope, C.T. Liu, 2013-10-22 This volume of proceedings is concerned with an increasingly important area that of intermetallics and high temperature aluminides which has recently been attracting a great deal of attention Nearly 150 papers presented at the meeting held in San Diego in September 1991 are reproduced here They cover a wide range of related topics such as the bonding characteristic and alloying behaviour of TiAl intermetallic compounds and the cleavage fracture of ordered intermetallic alloys All the papers have been reviewed according to the standards set by Materials Science and Engineering This book will be of interest to metallurgists and materials scientists working with composites who are interested in the latest developments in this fast moving field **Laser/optical Processing of Electronic Materials** Jagdish Narayan, 1990 **Oriented Crystallization on Amorphous Substrates** E.I. Givargizov, 2013-11-21 Present day science and technology have become increasingly based on studies and applications of

thin films This is especially true of solid state physics semiconductor electronics integrated optics computer science and the like In these fields it is necessary to use films with an ordered structure especially single crystalline films because physical phenomena and effects in such films are most reproducible Also active parts of semiconductor and other devices and circuits are created as a rule in single crystal bodies To date single crystalline films have been mainly epitaxial or heteroepitaxial i.e. they have been grown on a single crystalline substrate and principal trends e.g. in the evolution of integrated circuits ICs have been based on continuing reduction in feature size and increase in the number of components per chip However as the size decreases into the submicrometer range technological and physical limitations in integrated electronics become more and more severe It is generally believed that a feature size of about 0.1 μm will have a crucial character In other words the present two dimensional ICs are anticipated to reach their limit of minimization in the near future and it is realized that further increase of packing density and/or functions might depend on three dimensional integration To solve the problem techniques for preparation of single crystalline films on arbitrary including amorphous substrates are essential

Fundamentals of Microfabrication Marc J. Madou, 2018-10-08 MEMS technology and applications have grown at a tremendous pace while structural dimensions have grown smaller and smaller reaching down even to the molecular level With this movement have come new types of applications and rapid advances in the technologies and techniques needed to fabricate the increasingly miniature devices that are literally changing our world A bestseller in its first edition Fundamentals of Microfabrication Second Edition reflects the many developments in methods materials and applications that have emerged recently Renowned author Marc Madou has added exercise sets to each chapter thus answering the need for a textbook in this field Fundamentals of Microfabrication Second Edition offers unique in depth coverage of the science of miniaturization its methods and materials From the fundamentals of lithography through bonding and packaging to quantum structures and molecular engineering it provides the background tools and directions you need to confidently choose fabrication methods and materials for a particular miniaturization problem New in the Second Edition Revised chapters that reflect the many recent advances in the field Updated and enhanced discussions of topics including DNA arrays microfluidics micromolding techniques and nanotechnology In depth coverage of bio MEMs RF MEMs high temperature and optical MEMs Many more links to the Web Problem sets in each chapter

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fluidics The second volume presents a very large set of manufacturing techniques for micro and nanofabrication and covers different forms of lithography material removal processes and additive technologies The third volume focuses on manufacturing techniques and applications of Bio MEMS and Bio NEMS Illustrated in color throughout this seminal work is a cogent instructional text providing classroom and self learners with worked out examples and end of chapter problems The author characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work

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