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Surface Studies with Lasers

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P. M. Auluckmeyer, R. Kettner, M. E. Lippert



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**Surface Studies With Lasers Proceedings Of The
International Conference Mauterndorf Austria March 9
11 1983**

**Barbara Hopkinson,[Anonymus
AC01401231]**



Surface Studies With Lasers Proceedings Of The International Conference Mauterndorf Austria March 9 11 1983:

Surface Studies with Lasers F.R. Aussenegg, A. Leitner, M.E. Lippitsch, 2013-06-29 The physics and chemistry of surfaces is becoming more and more important as an exciting field of basic research as well as in devices and technology The diagnoses and the conditioning of surfaces and studies of molecular interactions with surfaces have made large advancements by using laser techniques With its divisional meeting 1983 the Quantum Electronics Division of the European Physical Society tried to set up a forum where the latest ideas and achievements could be presented and discussed The wide range of topics general surface spectroscopy surface enhanced optical processes laser surface spectroscopy laser induced processes at surfaces was deliberately chosen to provide an opportunity for specialists from one field to get acquainted with the techniques and results from others This meeting took place in Mauterndorf Austria from March 9th to March 11th 1983 Mauterndorf is a small village in the Austrian Alps situated in a well known skiing area The conference was held in a medieval castle adapted as a conference center These stimulating surroundings guaranteed a vivid exchange of ideas among the 98 participants from 17 nations Among the numerous people engaged in the organization our special thanks go to Mrs I Mandl and Mrs B Seeberg for doing a superb job in implementing the meeting arrangements and efficiently prompting the authors to deliver their manuscripts for this volume in time Picosecond Electronics and Optoelectronics Gerard A.

Mourou, David M. Bloom, Chi-H. Lee, 2013-03-07 Over the past decade we have witnessed a number of spectacular advances in the fabrication of crystalline semiconductor devices due mainly to the progress of the different techniques of heteroepitaxy The discovery of two dimensional behavior of electrons led to the development of a new breed of ultrafast electronic and optical devices such as modulation doped FETs permeable base transistors and double heterojunction transistors Comparable progress has been made in the domain of cryoelectronics ultrashort pulse generation and ultrafast diagnostics Dye lasers can generate 8 fs signals after compression diode lasers can be modulated at speeds close to 20 GHz and electrical signals are characterized with subpicosecond accuracy via the electro optic effect Presently we are experiencing an important interplay between the field of optics and electronics the purpose of this meeting was to foster and enhance the interaction between the two disciplines It was logical to start the conference by presenting to the two different audiences i.e. electronics and optics the state of the art in the two respective fields and to highlight the importance of optical techniques in the analysis of physical processes and device performances One of the leading techniques in this area is the electro optic sampling technique This optical technique has been used to characterize transmission lines and GaAs devices Carrier transport in semiconductors is of fundamental importance and some of its important aspects are stressed in these proceedings **X-Ray Microscopy** G. Schmahl, D. Rudolph, 2013-04-17 X ray microscopy fills a gap between optical and electron microscopy Using soft x rays a resolution higher than with visible light can be obtained In comparison to electron microscopy thick wet unstained specimens can be examined This is especially advantageous for biological applications The

intense synchrotron radiation of electron storage rings and the development of optical elements for soft x rays render x ray microscopy feasible for basic research. Wider applications will be possible in the future with the development of laboratory x ray sources and microscopes. In 1979 a conference on x ray microscopy was organized by the New York Academy of Sciences and in 1981 a symposium on high resolution soft x ray optics was held at Brookhaven. The present volume contains the contributions to the symposium. X Ray Microscopy organized by the Akademie der Wissenschaften in Göttingen in September 1983. In their capacity as conference chairmen the editors would like to thank the Akademie der Wissenschaften especially Prof H G Wagner Secretary of the Academy and Mr J Pfahler for organizing the symposium. We are indebted to the Stiftung Volkswagenwerk for financial support. The symposium was held at the Max Planck Institut für Stromungsforschung. We are grateful for their hospitality and assistance during the symposium. Thanks are due to all authors and to the Springer Verlag for their combined efforts. We thank Dipl Phys P Guttman, Dr B Niemann and Mrs A Marienhagen for their assistance during the final preparation of the manuscripts.

Secondary Ion Mass Spectrometry SIMS IV A.

Benninghoven, J. Okano, R. Shimizu, H.W. Werner, 1984-04-01. This volume contains full proceedings of the Fourth International Conference on Secondary Ion Mass Spectrometry SIMS IV held in the Minoo Kanko Hotel Osaka Japan from November 13th to 19th 1983. Coordinated by a local organizing committee under the auspices of the international organizing committee it followed earlier conferences held in Münster 1977, Stanford 1979 and Budapest 1981. The conference was attended by about 250 participants from 18 countries and 130 papers including 24 invited ones were presented. Reflecting the rapidly expanding activities in the SIMS field, informative papers were presented containing up to date information on SIMS and various related fields. The proceedings focussed upon six main issues: 1 Fundamentals of sputtering and secondary ion formation, 2 Recent progress in instrumentation including submicron SIMS and image processing, 3 SIMS combined with other surface analysis techniques, 4 Outstanding SIMS related analytical methods such as laser microprobe SIMS, sputtered neutral mass spectrometry, mass spectrometry of sputtered neutrals by multi photon resonance ionization and accelerator based SIMS, 5 Organic SIMS and FAB which has recently become a rapidly expanding technique in pharmacy biotechnology etc, 6 Applications of SIMS to various fields such as metallurgy, geology and biology including depth profiling of semiconductors and analysis of inorganic materials. As a venue for the exchange of ideas and information concerning all the above issues the conference proved a great success.

Bibliographic Guide to Conference Publications

New York Public Library. Research Libraries, 1976. Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes. International Conference on Surface Studies with Lasers, EPS-QED Divisional Meeting, March 9-11, 1983, Mauterndorf/Salzburg, Austria, 1983

Desorption Induced by Electronic Transitions DIET II

Wilhelm Brenig, Dietrich Menzel, 2012-12-06. The second workshop on Desorption Induced by Electronic Transitions DIET II took place October 15-17 1984 in Schloß Elmau Bavaria.

DIET II following the great success of DIET I edited by N H Tolk M M Traum J C Tully T E Madey and published in Springer Ser Chem Phys Vol 24 again brought together over 60 workers in this exciting field The hard core of experts was essentially the same as in DIET I but the general overlap of participants between the two meetings was small While DIET I had the function of an exposition of the status of the field DIET II focussed more on new developments The main emphasis was again on the microscopic understanding of DIET but a number of side aspects and the application of DIET ideas to other fields such as sputtering laser induced desorption fracture erosion etc were considered too New mechanisms and new refined experimental techniques were proposed and discussed at the meeting critically but with great enthusiasm In addition to the talks there was a continuous poster exhibition which also stimulated extended and excited discussions This book is a collection of papers summarizing the talks and posters presented at the meeting **American Book Publishing Record**, 1984

Two-Dimensional Systems: Physics and New Devices Günther Bauer,Friedemar Kuchar,Helmut Heinrich,2013-06-29
In the series of International Winter Schools on New Developments in Solid State Physics the fourth one was devoted to the subject Two Dimensional Systems Physics and Devices For the second time the pro ceedings of one of these Winter Schools appear as a volume in the Springer Series in Solid State Sciences the earlier proceedings were published as Vol 53 The school was held in the castle of MauterndorfjSalzburg Austria February 24 28 1986 These proceedings contain contributions ba sed on the thirty invited lectures The school was attended by 179 registered participants 40% students who came from western European countries the United States of America Japan the People s Republic of China and Poland As far as the subjects are concerned several papers deal with the growth and characterization of heterostructures Dynamical RHEED tech niques are described as a tool for in situ studies of MBE growth mech anisms Various growth techniques including MBE MOMBE MOCVD and modifications of these are discussed The limiting fa ctors for the carrier mobilities and the influence of the spacer thickness in single het erostructures of GaAs GaAIAs seem to be understood and are no longer a matter of controversy In addition the growth of two fascinating systems Si SiGe and Hg _ Cd Te CdTe is discussed in detail **Journal of Current Laser Abstracts** ,1983 **Physics Briefs** ,1992 *Trudy i Materialy Nauchnykh Kongressov i Soveshchaniï* ,1982 **Bibliographic Guide to Technology** New York Public Library. Research Libraries,1978 International Books in Print, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995 Index of Conference Proceedings Received British Library. Lending Division,1984 Optical Second Harmonic Generation and Infrared Visible Sum Frequency Generation as Surface Probes Philippe Marie Guyot-Sionnest,1987 □□□□□□□□□□□□□□□□ □□□□□□ (Japan),1900 □□□□□□□□□□□□ □□□□□□□□□□ ,1990 **Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles **Government Reports Announcements & Index** ,1983

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