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**New Developments in
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1980

**New Developments in
Semiconductor Physics**-George
Ferenczi 1988-05-25 This volume
contains selected papers presented at

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the summer school on semiconductor physics in Szeged (Hungary). They cover the areas of multilayer growth technology, theory of electron states, transport theory, defect related effects and structural properties of semiconductors. The book addresses physicists as well as engineers.

**Physics Of Semiconductors -
Proceedings Of The 20th
International Conference (In 3
Volumes)**-Anastassakis E M 1990-11-29

Gathering top experts in the field, the 20th ICPS proceedings reviews the progress in all aspects of semiconductor physics. The proceedings will include state-of-the-art lectures with special emphasis on exciting new

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developments. It should serve as excellent material for researchers in this and related fields.

**Semiconductor Physics -
Proceedings Of The 5th Brazilian
School**-J R Leite 1992-11-06

**New Developments in
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Ferenczi 1988 This volume contains
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semiconductors. The book addresses
physicists as well as engineers.

**Introduction to the Theory of
Metastable and Unstable States**-
James D. Gunton 1983

Physics of Semiconductors-Wolfgang
Jantsch 2007 This book features peer-
reviewed papers that were presented at
the 28th International Conference on
the Physics of Semiconductors. This
biannual conference presents and
discusses all important developments
and outstanding recent results in the
field of semiconductor physics: one of
the most important disciplines in solid
state physics. Semiconductor physics

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provides the scientific basis for the microelectronic device industry.

Physics of Semiconductors 2002-J.H

Davies 2003-05-01 The 26th

International Conference on the Physics of Semiconductors was held from 29 July to 2 August 2002 at the Edinburgh International Conference Centre. It is the premier meeting in the field of semiconductor physics and attracted over 1000 participants from leading academic, governmental and industrial institutions in some 50 countries around the world. Plenary and invited papers (34) have been printed in the paper volume, and all submitted papers (742) are included on the CD-ROM. These proceedings provide an international

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perspective on the latest research and a review of recent developments in semiconductor physics. Topics range from growth and properties of bulk semiconductors to the optical and transport properties of semiconductor nanostructures. There are 742 papers, mostly arranged in chapters on Bulk, dynamics, defects and impurities, growth (147); Heterostructures, quantum wells, superlattices - optical (138); Heterostructures, quantum wells, superlattices - transport (97); Quantum nanostructures - optical (120); Quantum nanostructures - transport (85); New materials and concepts (52); Novel devices (43); and Spin and magnetic effects (48). A number of trends were identified in setting up the overall programme of the conference. There

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were significant contributions from new directions of research such as nanostructures and one-dimensional physics; spin effects and ferromagnetism; and terahertz and subband physics. These complemented areas in which the conference has traditional strengths, such as defects and bulk materials; crystal growth; quantum transport; and optical properties. As a record of a conference that covers the whole range of semiconductor physics, this book is an essential reference for researchers working on semiconductor physics, device physics, materials science, chemistry, and electronic and electrical engineering.

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Semiconductor Physics**-George
Ferenczi 2014-01-15

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Critical Phenomena-F. J. W. Hahne
2006-01-20

Electronic Properties of Materials-H.
Thayne Johnson 2013-11-27 HIS FIRST
EDITION OF Electronic Properties of
Force Materials Laboratory, where Air
Force respon T Materials: A Guide to

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The Physics of Semiconductor

Devices-R. K. Sharma 2019-01-31 This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

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Physics in High Magnetic Fields-S. Chikazumi 2012-12-06 This volume represents the Proceedings of the Oji International Seminar on the Application of High Magnetic Fields in the Physics of Semiconductors and Magnetic Materials, which was held at the Hakone Kanko Hotel, Hakone, Japan, from 10 to 13 September 1980. The Seminar was organized as a related meeting to the 15th International Conference on the Physics of Semiconductors which was held in Kyoto between 1 and 5 September 1980. From 12 countries, 77 delegates participated in the Seminar. This Seminar was originally planned to be a formal series of International Conferences on the Application of High

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Magnetic Fields in the Physics of Semiconductors, which was first started by Professor G. Landwehr in 1972 in WUrzburg as a satellite conference to the 11th Semiconductor Conference in Warsaw. The Conference in WUrzburg was conducted in an informal atmosphere which was followed by three conferences, in WUrzburg in 1974 and 1976, and in Oxford in 1978. At the current Seminar the physics of magnetic materials was added to the scope of the Seminar, because high-field magnetism is also an important research area in the physics of high magnetic fields and is also one of the most active fields in physics in Japan. In the last decade, considerable effort has been devoted to develop the techniques for generating the high magnetic fields in many high-

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field laboratories in the world.

An Index and Other Useful Information-H. Araki 2013-11-21

D(X) Centres and other Metastable Defects in Semiconductors, Proceedings of the INT Symposium, Mauterndorf, Austria, 18-22 February 1991-W. Jantsch 2020-11-26

Since the first reports on metastable defects in III-V and II-VI compound semiconductors appeared in the late 1960s, the number of reports on defects with metastable states has been growing at an ever increasing rate. D(X)-center and other metastability defects cause many technical problems

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that are exacerbated by the uncertainty and controversy surrounding the mechanisms that cause them. A lively mix of theoretical and experimental discussions, D(X)-Centres and other Metastable Defects in Semiconductors presents a timely investigation of these systems. The book discusses topics such as, the validity of negative or positive U models, as well as alternative views that challenge existing ideas. The richness and precision of experimental data now emerging in the field is chronicled as are new investigative techniques. Based on an INT symposium, this book provides a successful forum where an extraordinary variety of ideas, including new perspectives, are examined critically.

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Energy Research Abstracts- 1993-10

New Developments in Semiconductor Physics-International Summer School on New Developments in Semiconductor Physics (1979 : Szeged) 1980

New Developments in Semiconductor Physics-F. Beleznay
2014-01-15

Shallow-Level Centers in Semiconductors-C A J Ammerlaan
1997-04-19 This book is devoted to the specific physical and chemical

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properties of centers in semiconductors with shallow energy levels and electronic distributions of an extended size. Reports are included on the most advanced experimental and theoretical methods for identifying and further characterizing these materials. Attention is given to such topics as shallow-level centers in host semiconductors of lower dimensionality, centers in wide-bandgap semiconductors, shallow excited states of centers with deep ground states, passivation of centers, and other aspects of impurity control during crystal growth and processing with its relevance to applications.

Contents: Resonant Polaron Effect of Shallow Indium Donors in CdTe (M Grynberg et al.) Shallow Electronic

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Traps Associated With Hydrogen Complexes in Crystalline Silicon (A N Safonov et al.) Zeeman Spectroscopy of Neutral Copper and a Copper Related Acceptor in Germanium (R E M Vickers & P Fisher) Excited States of the Vacancy in Diamond: Shallow States of a Deep Defect (A M Stoneham & A Mainwood) Shallow Donor in Spherical Quantum Antidots (R Buczko & F Bassani) Shallow Centers in Heavily Doped Silicon Quantum Wells (W Gehlhoff et al.) Shallow Thermal Donor Defects in Silicon (C P Ewels et al.) and other papers Readership: Researchers in semiconductors, experimental physics, condensed matter/solid state physics, theoretical physics and materials science. keywords:

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**Proceedings of the 17th
International Conference on the
Physics of Semiconductors**-J.D. Chadi

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

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(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

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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.

Compound Semiconductors 2002-

Marc Ilegems 2003-09-01 A major showcase for the compound semiconductor community, Compound Semiconductors 2002 presents an overview of recent developments in compound semiconductor physics and its technological applications to devices. The topics discussed reflect the significant progress achieved in understanding and mastering compound

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semiconductor materials and electronic and optoelectronic devices. The book covers heteroepitaxial growth, quantum confined emitters and detectors, quantum wires and dots, ultrafast transistors, and various compound materials.

High Magnetic Fields In The Physics Of Semiconductors - Proceedings Of The 12th International Conference (In 2 Volumes)-Landwehr Gottfried

1997-04-23 This volume contains contributions presented at the 12th International Conference on High Magnetic Fields in Semiconductor Physics. In order to give an overview, 37 lecturers not only reviewed the latest results in their field, but also gave a

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general introduction. The rapid development of semiconductor physics and technology during the last few years has resulted in an extensive application of high magnetic fields in both fundamental and applied research; more than 160 contributed papers were presented as posters. Sixteen years after its discovery, the quantum Hall effect (QHE) is still a subject of high activity. Many new results on the fractional QHE were presented; in addition to 6 invited papers, there were 43 contributions. Another field of high activity is magneto-optics, and 49 posters were presented. Magnetotransport also turned out to be of high interest, and magnetic semiconductors played a prominent role at the conference, too. Without doubt, the availability of

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superconducting magnets in most laboratories contributed to the growth of semiconductor physics in high magnetic fields. Because not all experiments can be performed in fields up to 10 or 15 teslas, high magnetic field laboratories offering larger fields are indispensable. There were reports from four laboratories on present work going on at these installations.

**New Developments in
Semiconductor Physics; Proceedings
of the International Summer School
in Szeged, Hungary, July 1-6, 1979-
Ferenc Beleznyay 1980**

**Solid State Physics- 1992-11-18 Solid
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State Physics

Physics of Semiconductors 2002-J.H

Davies 2003-05-01 The 26th

International Conference on the Physics of Semiconductors was held from 29 July to 2 August 2002 at the Edinburgh International Conference Centre. It is the premier meeting in the field of semiconductor physics and attracted over 1000 participants from leading academic, governmental and industrial institutions in some 50 countries around the world. Plenary and invited papers (34) have been printed in the paper volume, and all submitted papers (742) are included on the CD-ROM. These proceedings provide an international perspective on the latest research and a

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review of recent developments in semiconductor physics. Topics range from growth and properties of bulk semiconductors to the optical and transport properties of semiconductor nanostructures. There are 742 papers, mostly arranged in chapters on Bulk, dynamics, defects and impurities, growth (147); Heterostructures, quantum wells, superlattices - optical (138); Heterostructures, quantum wells, superlattices - transport (97); Quantum nanostructures - optical (120); Quantum nanostructures - transport (85); New materials and concepts (52); Novel devices (43); and Spin and magnetic effects (48). A number of trends were identified in setting up the overall programme of the conference. There were significant contributions from new

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directions of research such as nanostructures and one-dimensional physics; spin effects and ferromagnetism; and terahertz and subband physics. These complemented areas in which the conference has traditional strengths, such as defects and bulk materials; crystal growth; quantum transport; and optical properties. As a record of a conference that covers the whole range of semiconductor physics, this book is an essential reference for researchers working on semiconductor physics, device physics, materials science, chemistry, and electronic and electrical engineering.

ISTFA '93-Suzanne E. Hampson 1993

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Proceedings of the 19th International Symposium for Testing and Failure Analysis held in Los Angeles, California, in November 1993. Among the topics: computer-aided fault isolation, OBIC/photoemission techniques, and moisture/metallization issues. No index. Annotation copyright Book News, Inc. Portl

Compound Semiconductors 2001-Y

Arakawa 2002-09-30 An international perspective on recent research, Compound Semiconductors 2001 provides an overview of important developments in III-V compound semiconductors, such as GaAs, InP, and GaN; II-VI compounds, such as ZnSe and CdTe; and IV-IV compounds, such

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as SiC and SiGe. The book contains 139 papers arranged in chapters on electronic devices, optical devices, magnetic materials, novel systems, quantum transport, optical characterization, quantum nanostructures, and material growth and characterization. The content encompasses the development of optical and electronic devices based on nitride semiconductors as well as the steady advances in traditional topics like III-V-based electronic and optical devices, growth and processing, and characterization. The book also includes novel research trends in quantum structures, such as quantum wires and dots, and spintronics, which are very promising for future developments in nanotechnology. As the primary forum

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for research into these materials and their device applications, this resource is an essential reference for researchers working on compound semiconductors in semiconductor physics, device physics, materials science, chemistry, and electronic and electrical engineering.

Semiconductor Optics 1-Heinz Kalt
2019-09-20 This revised and updated edition of the well-received book by C. Klingshirn provides an introduction to and an overview of all aspects of semiconductor optics, from IR to visible and UV. It has been split into two volumes and rearranged to offer a clearer structure of the course content. Inserts on important experimental

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techniques as well as sections on topical research have been added to support research-oriented teaching and learning. Volume 1 provides an introduction to the linear optical properties of semiconductors. The mathematical treatment has been kept as elementary as possible to allow an intuitive approach to the understanding of results of semiconductor spectroscopy. Building on the phenomenological model of the Lorentz oscillator, the book describes the interaction of light with fundamental optical excitations in semiconductors (phonons, free carriers, excitons). It also offers a broad review of seminal research results augmented by concise descriptions of the relevant experimental techniques, e.g., Fourier

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transform IR spectroscopy, ellipsometry, modulation spectroscopy and spatially resolved methods, to name a few. Further, it picks up on hot topics in current research, like quantum structures, mono-layer semiconductors or Perovskites. The experimental aspects of semiconductor optics are complemented by an in-depth discussion of group theory in solid-state optics. Covering subjects ranging from physics to materials science and optoelectronics, this book provides a lively and comprehensive introduction to semiconductor optics. With over 120 problems, more than 480 figures, abstracts to each chapter, as well as boxed inserts and a detailed index, it is intended for use in graduate courses in physics and neighboring sciences like

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material science and electrical engineering. It is also a valuable reference resource for doctoral and advanced researchers.

Resonances in Heavy Ion Reactions-

Klaus Albrecht Eberhard 1982

Proceedings of the 25th International Conference on the Physics of Semiconductors Part I-

Norio MIURA 2001-05-17 As the proceedings of the most important and prestigious conference in the field of semiconductor physics, this book contains the latest information on the progress of semiconductor physics.

Almost 1000 contributed papers address

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the full range of current topics. The special symposium deals with the interface between the fundamentals and device applications and tries to predict the developments in semiconductor physics, semiconductor materials and device applications in the 21st century. A wide range of contributions represent the forefront of academic and industrial research.

Compound Semiconductors 1999-K

Ploog 2000-01-01 An international perspective on the latest research, Compound Semiconductors 1999 presents an overview of important developments in all III-V compound semiconductors such as GaAs, InP, and GaN; II-VI compounds such as ZnS,

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ZnSe, and CdTe; IV-IV compounds such as SiC and SiGe; and IV-VI compounds such as PbTe and SnTe. The book emphasizes piezoelectric (or potentially smart) material heterostructures (Ga, Al, In)N, which will influence future research and development funding. As the preeminent forum for research in compound materials and their applications in devices, this essential library reference is invaluable reading for all researchers in semiconductor physics, and electronic and electrical engineering.

Aspects of Polaron Theory-Nickolai N. Bogolubov Jr 2008 The linear polaron model is an excellent example of an exactly soluble, yet nontrivial polaron

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system. It serves as a trial system or zero-level approximation in many sophisticated methods of polaron investigation. This book analyzes, in particular, the possibility of reduction of the full polaron Hamiltonian to the linear one, and introduces a special method of calculating thermodynamical characteristics based on the calculation of the averages of T-products. This T-product formalism seems to be a more convenient way of doing similar calculations involving Feynman's path integral approach. This book follows a step-by-step approach, from comparatively simple physical ideas to a clear understanding of sophisticated mathematical tools of investigation in modern polaron physics. The reader is able to compare the physical point of

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view with methods proposed in the book, and at the same time grasp the underlying mathematics. Some familiarity with quantum statistical mechanics is desirable in reading this book.

Radiative Properties of

Semiconductors-N.M. Ravindra
2017-08-21 Optical properties, particularly in the infrared range of wavelengths, continue to be of enormous interest to both material scientists and device engineers. The need for the development of standards for data of optical properties in the infrared range of wavelengths is very timely considering the on-going transition of nano-technology from

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fundamental R&D to manufacturing. Radiative properties play a critical role in the processing, process control and manufacturing of semiconductor materials, devices, circuits and systems. The design and implementation of real-time process control methods in manufacturing requires the knowledge of the radiative properties of materials. Sensors and imagers operate on the basis of the radiative properties of materials. This book reviews the optical properties of various semiconductors in the infrared range of wavelengths. Theoretical and experimental studies of the radiative properties of semiconductors are presented. Previous studies, potential applications and future developments are outlined. In Chapter 1, an introduction to the

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radiative properties is presented. Examples of instrumentation for measurements of the radiative properties is described in Chapter 2. In Chapters 3-11, case studies of the radiative properties of several semiconductors are elucidated. The modeling and applications of these properties are explained in Chapters 12 and 13, respectively. In Chapter 14, examples of the global infrastructure for these measurements are illustrated.

**Semiconductor Interfaces:
Formation and Properties-Guy LeLay**

2012-12-06 The trend towards miniaturisation of microelectronic devices and the search for exotic new optoelectronic devices based on

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multilayers confer a crucial role on semiconductor interfaces. Great advances have recently been achieved in the elaboration of new thin film materials and in the characterization of their interfacial properties, down to the atomic scale, thanks to the development of sophisticated new techniques. This book is a collection of lectures that were given at the International Winter School on Semiconductor Interfaces: Formation and Properties held at the Centre de Physique des Rouches from 24 February to 6 March, 1987. The aim of this Winter School was to present a comprehensive review of this field, in particular of the materials and methods, and to formulate recommendations for future research. The following topics are treated: (i) Interface formation. The key aspects of

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molecular beam epitaxy are emphasized, as well as the fabrication of artificially layered structures, strained layer superlattices and the tailoring of abrupt doping profiles. (ii) Fine characterization down to the atomic scale using recently developed, powerful techniques such as scanning tunneling microscopy, high resolution transmission electron microscopy, glancing incidence x-ray diffraction, x-ray standing waves, surface extended x-ray absorption fine structure and surface extended energy-loss fine structure. (iii) Specific physical properties of the interfaces and their prospective applications in devices. We wish to thank warmly all the lecturers and participants, as well as the organizing committee, who made this

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Winter School a success.

**Physics Of Semiconductors, The -
Proceedings Of The 22nd
International Conference (In 3
Volumes)**-David J Lockwood

1995-01-20 These proceedings review the progress in most aspects of semiconductor physics, including those related to materials, processing and devices. The conference continues the tradition of the ICPS series and these volumes include state-of-the-art lectures. The plenary and invited papers address areas of major interest. These volumes will serve as excellent material for researchers in semiconductor physics and related fields.

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Handbook of Semiconductor Manufacturing Technology

Yoshio Nishi 2017-12-19 Retaining the comprehensive and in-depth approach that cemented the bestselling first edition's place as a standard reference in the field, the Handbook of Semiconductor Manufacturing Technology, Second Edition features new and updated material that keeps it at the vanguard of today's most dynamic and rapidly growing field. Iconic experts Robert Doering and Yoshio Nishi have again assembled a team of the world's leading specialists in every area of semiconductor manufacturing to provide the most reliable, authoritative, and industry-leading information available. Stay Current with the Latest

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Technologies In addition to updates to nearly every existing chapter, this edition features five entirely new contributions on... Silicon-on-insulator (SOI) materials and devices
Supercritical CO₂ in semiconductor cleaning Low- κ dielectrics Atomic-layer deposition Damascene copper electroplating Effects of terrestrial radiation on integrated circuits (ICs)
Reflecting rapid progress in many areas, several chapters were heavily revised and updated, and in some cases, rewritten to reflect rapid advances in such areas as interconnect technologies, gate dielectrics, photomask fabrication, IC packaging, and 300 mm wafer fabrication. While no book can be up-to-the-minute with the advances in the semiconductor field, the Handbook of

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Semiconductor Manufacturing Technology keeps the most important data, methods, tools, and techniques close at hand.

The Physics of Submicron Semiconductor Devices (Nato Asi Series. Series B. Physics, Vol 180)-

NATO Advanced Study Institute on Physics of Submicron Semiconductor Devices 1988 The papers contained in the volume represent lectures delivered as a 1983 NATO ASI, held at Urbino, Italy. The lecture series was designed to identify the key submicron and ultrasubmicron device physics, transport, materials and contact issues. Nonequilibrium transport, quantum transport, interfacial and size

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constraints issues were also highlighted. The ASI was supported by NATO and the European Research Office. H. L. Grubin D. K. Ferry C. Jacoboni v

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**Proceedings of the 17th
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1985-05-06 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

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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

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have been placed together with the appropriate contributed papers.

Physics Of Semiconductors, The - Proceedings Of The 24th International Conference (With Cd-rom)-Gershoni David 1999-03-12 The proceedings of this important

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