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Rare-Earth-Doped Devices II

Seppo Honkanen Shibin Jiang Chars/Editors

26-27 January 1998 San Jose, California



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Guanying Chen, Zhijun Ning, Hans Agren

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Rare-earth-doped Devices II Seppo Honkanen, Shibin Jiang, 1998 Fibre Optic Communication Devices Norbert Grote, Herbert Venghaus, 2012-12-06 Modern communication technologies have revolutionized society and econ omy on a global scale and progress in this field is still breathtaking Among the crucial features of these developments is the possibility to transmit receive ever increasing bit rates at lower and lower cost This is due to some ex tent to improved electronics but it is much more due to the capabilities of opticaL fibre based communication systems Optical communication tech nologies were initially introduced in order to improve traditional information exchange but they have recently become a key prerequisite for the tremen dous growth in internet traffic and optical technologies will be even more important in enabling and supporting the future expansion of internet traffic with annual growth rates forecast at 100% 200% It is the purpose of the present book to describe the enabling components of optical communication systems in particular their fundamentals principles and current status as well as the potential for future developments Following such a scheme it is the editors hope that this book will not only attract the attention of experts already working in the field but be at least likewise directed to interested newcomers The book is organized into eleven chapters addressing the essential optical and optoelectronic components which form the hardware basis of today s and most likely of future optical networks Lasers and Amplifiers, Revised and Expanded Michel J.F. Digonnet, 2001-05-31 A discussion of the theories operating characteristics and current technology of main fiber laser and amplifier devices based on rare earth doped silica and fluorozirconate fibers It describes the principles designs and properties of the erbium doped fiber amplifier and its role as the cornerstone component in optical communication systems This second edition contains new and revised material reflecting major developments in academia and industry Lasers Charles Blain, 2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject author and Handbook of Solid-State Lasers B Denker, E Shklovsky, 2013-02-20 Solid state lasers which offer multiple titles indexes desirable qualities including enhanced reliability robustness efficiency and wavelength diversity are absolutely indispensable for many applications. The Handbook of solid state lasers reviews the key materials processes and applications of solid state lasers across a wide range of fields Part one begins by reviewing solid state laser materials Fluoride laser crystals oxide laser ceramics crystals and fluoride laser ceramics doped by rare earth and transition metal ions are discussed alongside neodymium erbium and ytterbium laser glasses and nonlinear crystals for solid state lasers Part two then goes on to explore solid state laser systems and their applications beginning with a discussion of the principles powering and operation regimes for solid state lasers The use of neodymium doped materials is considered followed by system sizing issues with diode pumped quasi three level materials erbium glass lasers and microchip fiber Raman and cryogenic lasers Laser mid infrared

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Introduction to the Electronic Properties of Materials David C. Jiles, 2017-12-21 Electronic materials provide the basis for many high tech industries that have changed rapidly in recent years In this fully revised and updated second edition the author discusses the range of available materials and their technological applications Introduction to the Electronic Properties of Materials 2nd Edition presents the principles of the behavior of electrons in materials and develops a basic understanding with minimal technical detail Broadly based it touches on all of the key issues in the field and offers a multidisciplinary approach spanning physics electrical engineering and materials science It provides an understanding of the behavior of electrons within materials how electrons determine the magnetic thermal optical and electrical properties of materials and how electronic properties are controlled for use in technological applications Although some mathematics is essential in this area the mathematics that is used is easy to follow and kept to an appropriate level for the reader An excellent introductory text for undergraduate students this book is a broad introduction to the topic and provides a careful balance of information that will be appropriate for physicists materials scientists and electrical engineers *Proceedings of*

the Symposium on Light Emitting Devices for Optoelectronic Applications and the Twenty-Eighth State-of-the-Art Program on Compound Semiconductors Electrochemical Society. Luminescence and Display Materials Division, Electrochemical Society. **Electroluminescence** Shigeo Shionoya, Hiroshi Kobayashi, 2012-12-06 The Fourth International Workshop on Electroluminescence EL 88 was held at the Hotel Holiday Tottori Japan October 11 14 1988 This workshop was sponsored by the 125 Research Committee on Mutual Conversion between Light and Electricity Japan Society for the Promotion of Science in cooperation with SID Society for Infonnation Display Japan Chapter Tottori Prefecture the Tot tori Industrial Technology Association and the Foundation for Advancement of International Science FAIS The workshop EL 88 was a continuation of the series of international work shops held successively at Liege Belgium in 1980 Bad Stuer DDR in 1983 and at Wann Springs Oregon USA in 1986 It brought together scientists and engi neers from universities and industry who shared a common interest in discussing electroluminescence and related topics The number of participants reached 253 49 from abroad 10 countries and 204 from Japan This is almost four times as many as in the previous workshop in 1986 reflecting the recent rapid development and progress of electroluminescence research Silicon-Based Material and Devices, Two-Volume Set Hari Singh Nalwa, 2001-06-13 This book covers a broad spectrum of the silicon based materials and their device applications This book provides a broad coverage of the silicon based materials including different kinds of silicon related materials their processing spectroscopic characterization physical properties and device applications This two volume set offers a selection of timely topics on silicon materials namely those that have been extensively used for applications in electronic and photonic technologies The extensive reference provides broad coverage of silicon based materials including different types of silicon related materials their processing spectroscopic characterization physical properties and device applications Fourteen chapters review the state of the art research on silicon based materials and their applications to devices This reference contains a subset of articles published in AP s recently released Handbook of Advanced Electronic and Photonic Materials and Devices 2000 ISBN 012 5137451 ten volumes by Dr Hari Nalwa This two volume work strives to present a highly coherent coverage of silicon based material uses in the vastly dynamic arena of silicon chip research and technology Key Features Covers silicon based materials and devices Include types of materials their processing fabrication physical properties and device applications Role of silicon based materials in electronic and photonic technology A very special topic presented in a timely manner and in a format **Electroluminescence II**, 1999-10-29 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer series as it is widely known has succeeded in producing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in

the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Handbook of sol-gel science and technology. 1. Sol-gel processing Sumio Sakka, 2005 Since Dr Disiich of Germany prepared a glass lens by the sol gel method around 1970 sol gel science and technology has continued to develop Since then this field has seen remarkable technical developments as well as a broadening of the applications of sol gel science and technology There is a growing need for a comprehensive reference that treats both the fundamentals and the applications and this is the aim of Handbook of Sol Gel Science and Technology The primary purpose of sol gel science and technology is to produce materials active and non active including optical electronic chemical sensor bio and structural materials This means that sol gel science and technology is related to all kinds of manufacturing industries Thus Volume 1 Sol Gel Processing is devoted to general aspects of processing Newly developed materials such as organic inorganic hybrids photonic crystals ferroelectric coatings photocatalysts will be covered Topics in this volume include Volume 2 Characterization of Sol Gel Materials and Products highlights the important fact that useful materials are only produced when characterization is tied to processing Furthermore characterization is essential to the understanding of nanostructured materials and sol gel technology is a most important technology in this new field Since nanomaterials display their functional property based on their nano and micro structure characterization is very important Topics found in Volume 2 include Sol gel technology is a versatile technology making it possible to produce a wide variety of materials and to provide existing substances with novel properties. This technology was applied to producing novel materials for example organic inorganic hybrids which are quite difficult to make by other fabricating techniques and it was also applied to producing materials based on high temperature superconducting oxides Applications of Sol Gel Technology Applications of Chalcogenides: S, Se, and Te Gurinder Kaur Volume 3 will cover applications such as Ahluwalia, 2016-11-02 This book introduces readers to a wide range of applications for elements in Group 16 of the periodic table such as optical fibers for communication and sensing X ray imaging electrochemical sensors data storage devices biomedical applications photovoltaics and IR detectors the rationale for these uses the future scope of their applications and expected improvements to existing technologies Following an introductory section the book is broadly divided into three parts dealing with Sulfur Selenium and Tellurium The sections cover the basic structure of the elements and their compounds in bulk and nanostructured forms properties that make these useful for various applications followed by applications and commercial products As the global technology revolution necessitates the search for new materials and

more efficient devices in the electronics and semiconductor industry Applications of Chalcogenides S Se and Te is an ideal book for a wide range of readers in industry government and academic research facilities looking beyond silicon for materials used in the electronic and optoelectronic industry as well as biomedical applications Nanostructured Solar Cells Guanying Chen, Zhijun Ning, Hans Agren, 2018-07-04 This book is a printed edition of the Special Issue Nanostructured Solar Cells that was published in Nanomaterials Rare Earth Sooraj H. Nandyala, 2024-06-05 This monograph represents a tribute to the late Prof Karl Gschneidner well known as Mr Rare Earth distinguished Professor of Materials Science and Engineering at the Iowa State University a Senior Metallurgist at the Ames Laboratory and the Chief Scientist of the Critical Materials Institute Topics covered include Rare Earth Glass Spectroscopy Treating Skin Diseases Prospective Rare Earth Applications Optical Information Storage Diagnostic Imaging Nanoparticles in Glasses and ZnO Nanomaterials Keywords Fiber Lasers Luminescent Pathway Forensic Applications Rejuvenating Skin Health Imaging FCC Catalyst Energy Transfer Rare Earth Phosphors Swarm Intelligence for Electric and Electronic Engineering Fornarelli, Girolamo, 2012-12-31 With growing developments in artificial intelligence and focus on swarm behaviors algorithms have been utilized in solving a variety of problems in the field of engineering This approach has been specifically suited to face the challenges in electric and electronic engineering Swarm Intelligence for Electric and Electronic Engineering provides an exchange of knowledge on the advances discoveries and improvements of swarm intelligence in electric and electronic engineering This comprehensive collection aims to bring together new swarm based algorithms as well as approaches to complex problems and various real world applications Device Applications of Silicon Nanocrystals and Nanostructures Nobuyoshi Koshida, 2008-12-11 Recent developments in the technology of silicon nanocrystals and silicon nanostructures where quantum size effects are important are systematically described including examples of device applications. Due to the strong quantum confinement effect the material properties are freed from the usual indirect or direct bandgap regime and the optical electrical thermal and chemical properties of these nanocrystalline and nanostructured semiconductors are drastically changed from those of bulk silicon In addition to efficient visible luminescence various other useful material functions are induced in nanocrystalline silicon and periodic silicon nanostructures Some novel devices and applications in fields such as photonics electroluminescence diode microcavity and waveguide electronics single electron device spin transistor nonvolatile memory and ballistic electron emitter acoustics and biology have been developed by the use of these quantum induced functions in ways different from the conventional scaling principle for ULSI

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