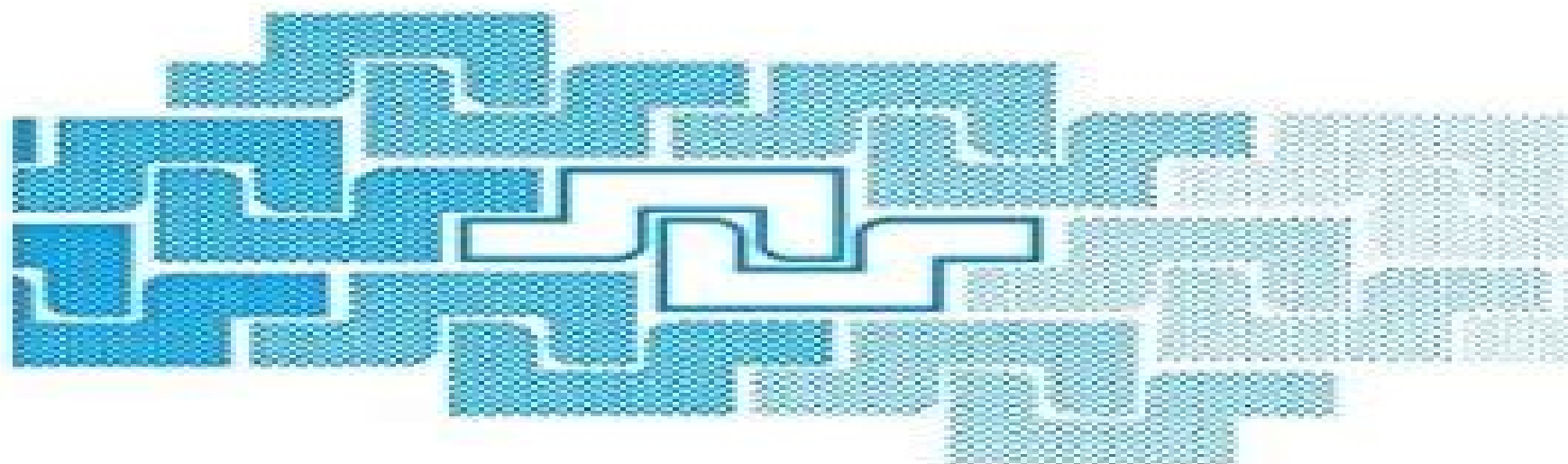




Towards the First Silicon Laser

Edited by

Lorenzo Pavesi, Sergey Gaponenko
and Luca Dal Negro

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Towards The First Silicon Laser Nato Science Series Ii

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Towards the First Silicon Laser Lorenzo Pavesi, Sergey Gaponenko, Luca Dal Negro, 2012-12-06 Silicon the leading material in microelectronics during the last four decades also promises to be the key material in the future Despite many claims that silicon technology has reached fundamental limits the performance of silicon microelectronics continues to improve steadily The same holds for almost all the applications for which Si was considered to be unsuitable The main exception to this positive trend is the silicon laser which has not been demonstrated to date The main reason for this comes from a fundamental limitation related to the indirect nature of the Si band gap In the recent past many different approaches have been taken to achieve this goal dislocated silicon extremely pure silicon silicon nanocrystals porous silicon Er doped Si Ge SiGe alloys and multiquantum wells SiGe quantum dots SiGe quantum cascade structures shallow impurity centers in silicon and Er doped silicon All of these are abundantly illustrated in the present book **Towards the First Silicon Laser**

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Techniques and Material Systems Silicon Photonics Fundamentals and Devices outlines the basic principles of operation of devices the structures of the devices and offers an insight into state of the art and future developments Silicon Nanophotonics Leonid Khriachtchev,2016-04-19 Nanoscale materials are showing great promise in various optoelectronics applications especially the fast developing fields of optical communication and optical computers With silicon as the leading material for microelectronics the integration of optical functions into silicon technology is a very important challenge This book concentrates on *Rare-Earth Implanted MOS Devices for Silicon Photonics* Lars Rebohle,Wolfgang Skorupa,2010-10-20 The book concentrates on the microstructural electric and optoelectronic properties of rare earth implanted MOS structures and their use as light emitters in potential applications **Silicon Photonics IV** David J. Lockwood,Lorenzo Pavesi,2021-06-08 This fourth book in the series Silicon Photonics gathers together reviews of recent advances in the field of silicon photonics that go beyond already established and applied concepts in this technology The field of research and development in silicon photonics has moved beyond improvements of integrated circuits fabricated with complementary metal oxide semiconductor CMOS technology to applications in engineering physics chemistry materials science biology and medicine The chapters provided in this book by experts in their fields thus cover not only new research into the highly desired goal of light production in Group IV materials but also new measurement regimes and novel technologies particularly in information processing and telecommunication The book is suited for graduate students established scientists and research engineers who want to update their knowledge in these new topics **Optical Fiber Communication Conference** ,2004 Optical Interconnects Lorenzo Pavesi,Gérard Guillot,2007-05-17 Optical Interconnects provides a fascinating picture of the state of the art in optical interconnects and a perspective on what can be expected in the near future It is composed of selected reviews authored by world leaders in the field and these reviews are written from either an academic or industrial viewpoint An in depth discussion of the path towards fully integrated optical interconnects in microelectronics is presented This book will be useful not only to physicists chemists materials scientists and engineers but also to graduate students who are interested in the fields of microelectronics and optoelectronics

Functional Nanomaterials for Optoelectronics and Other Applications Witold Łojkowski,John R. Blizzard,2004 Research and development in the field of nanomaterials thin films nanowires nanocrystals and nanostructured bulk materials has increased very rapidly during recent years Especially significant has been research in which the structure is closely controlled at the nanometer level in order to achieve the desired functional properties Nanostructures Christophe Jean Delerue,Michel Lannoo,2013-06-29 Progress in nanoscience is becoming increasingly dependent on simulation and modelling This is due to a combination of three factors the reduced size of nano objects the increasing power of computers and the development of new theoretical methods This book represents the first attempt to provide the theoretical background needed by physicists engineers and students to simulate nanodevices semiconductor quantum dots and molecular devices It presents

in a unified way the theoretical concepts the more recent semi empirical and ab initio methods and their application to experiments The topics include quantum confinement dielectric and optical properties non radiative processes defects and impurities and quantum transport This guidebook not only provides newcomers with an accessible overview requiring only basic knowledge of quantum mechanics and solid state physics but also provides active researchers with practical simulation tools

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

Diffusion and Defect Data ,2004 **Frontiers of Multifunctional Integrated Nanosystems** Eugenia V. Buzaneva,Peter Scharff,2006-02-25 Proceedings of the NATO Advanced Research Workshop Illmenau Germany from 12 to 16 July 2003

Photonic Materials, Devices, and Applications II Ali Serpengüzel,Gonçal Badenes,Giancarlo C. Righini,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Light Emitting Silicon for Microphotonics Stefano Ossicini,Lorenzo Pavesi,Francesco Priolo,2003-11-12 A fascinating insight into the state of the art in silicon microphotonics and on what we can expect in the near future The book presents an overview of the current understanding of getting light from silicon It concentrates mainly on low dimensional silicon structures like quantum dots wires and wells but covers also alternative approaches like porous silicon and the doping of silicon with rare earths The emphasis is on the experimental and theoretical achievements concerning the optoelectronic properties of confined silicon structures obtained during recent years Silicon based photonic crystals are in particular considered An in depth discussion of the route towards a silicon laser is presented

2003 Conference on Lasers and Electro-Optics Europe Conference on Lasers and Electro-optics Europe,IEEE Laser and Electro-Optics Society Staff,2003 **Amorphous and Nanocrystalline Silicon Science and Technology 2005: Volume 862** Robert W. Collins,2005-09-30 This book continues the long standing and highly successful series on amorphous silicon science and technology The opening article honors the pioneering use of

photons to probe silicon films and provides an historical overview of optical absorption for studies of the Urbach edge and disorder Additional invited presentations focus on new approaches for the fabrication of higher stability amorphous silicon based materials and solar cells and on the characterization of materials and cells both structurally and electronically The book includes topics relevant to solar cells including the role of hydrogen in metastability phenomena and deposition processes and the application of atomistic material simulations in elucidating film growth mechanisms and structure as characterized by in situ probes Chapters are devoted to nanostructures such as quantum dots and wires and to nano microcrystalline and poly single crystalline films the latter involving new concepts in crystalline grain growth and epitaxy Device applications are also highlighted such as thin film transistors solar cells and image sensors operable on the meter scale to memories operable on the nanometer scale Silicon Nanocrystals Lorenzo Pavesi,Rasit Turan,2010-02-02 This unique collection of knowledge represents a comprehensive treatment of the fundamental and practical consequences of size reduction in silicon crystals This clearly structured reference introduces readers to the optical electrical and thermal properties of silicon nanocrystals that arise from their greatly reduced dimensions It covers their synthesis and characterization from both chemical and physical viewpoints including ion implantation colloidal synthesis and vapor deposition methods A major part of the text is devoted to applications in microelectronics as well as photonics and nanobiotechnology making this of great interest to the high tech industry **Lietuvos fizikos žurnalas** ,2003

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