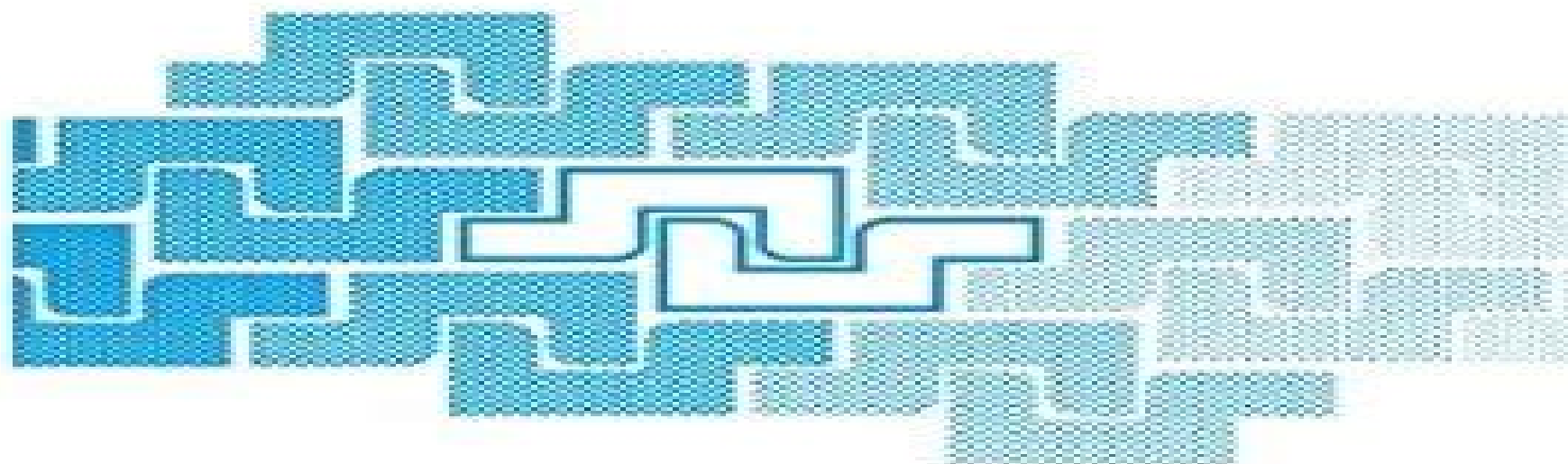




Towards the First Silicon Laser

Edited by

Lorenzo Pavesi, Sergey Gaponenko
and Luca Dal Negro

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Towards The First Silicon Laser Nato Science Series Ii

**Conference on Lasers and Electro-
optics Europe, IEEE Laser and Electro-
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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 Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 Many bottom up and top down techniques for nanomaterial and nanostructure generation have enabled the development of applications in nanoelectronics and nanophotonics Handbook of Nanophysics Nanoelectronics and Nanophotonics explores important recent applications of nanophysics in the areas of electronics and photonics Each peer reviewed c Silicon Photonics M. Jamal Deen, Prasanta Kumar Basu, 2012-04-30 The creation of affordable high speed optical communications using standard semiconductor manufacturing technology is a principal aim of silicon photonics research This would involve replacing copper connections with optical fibres or waveguides and electrons with photons With applications such as telecommunications and information processing light detection spectroscopy holography and robotics silicon photonics has the potential to revolutionise electronic only systems Providing an overview of the physics technology and device operation of photonic devices using exclusively silicon and related alloys the book includes Basic Properties of Silicon Quantum Wells Wires Dots and Superlattices Absorption Processes in Semiconductors Light Emitters in Silicon Photodetectors Photodiodes and Phototransistors Raman Lasers including Raman Scattering Guided Lightwaves Planar Waveguide Devices Fabrication 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 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 *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 **Diffusion and Defect Data** ,2004 **Photonic Materials, Devices, and Applications**

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Nanostructured Silicon for Photonics Zeno Gaburro,2005 The use of light to channel signals around electronic chips could solve several current problems in microelectronic evolution including power dissipation interconnect bottlenecks input output from to optical communication channels poor signal bandwidth etc It is unfortunate that silicon is not a good photonic material it has a poor light emission efficiency and exhibits a negligible electro optical effect Silicon photonics is a field having the objective of improving the physical properties of silicon thus turning it into a photonic material and permitting the full convergence of electronics and photonics **The British National Bibliography** Arthur James Wells,2003

Optoelectronics of Group-IV-based Materials Materials Research Society. Meeting,2003 Elemental semiconductors feature fundamental advantages when compared to II VI and III V compounds This is best illustrated by the success of silicon technology and also by the superior purity of germanium and MOCVD diamond However in contrast to electronic the optical properties of these materials are inferior and therefore their applications remain electronic rather than photonic Nevertheless an effort toward optoelectronics continues In the case of silicon and silicon based media this is motivated by the almost unlimited possibilities offered by VLSI technology Among other methods quantum confinement in low dimensional structures optical doping development of inhomogeneous media and applications of microcavities are being vigorously explored as ways to improve emission When brought to maturity these approaches could lead to widespread applications ranging from telecommunications to chemical and biological sensing For silicon a full on chip integration of electronic and photonic elements could be realized This volume brings together researchers from academic industry and government

laboratories around the world to review progress in the field identify the most promising targets point out possible bottlenecks and assess future perspectives A cross fertilization of ideas from the fields of materials science spectroscopy solid state physics and chemistry as well as device physics are presented **Physics, Uspekhi** ,2003 *Silicon Photonics*
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