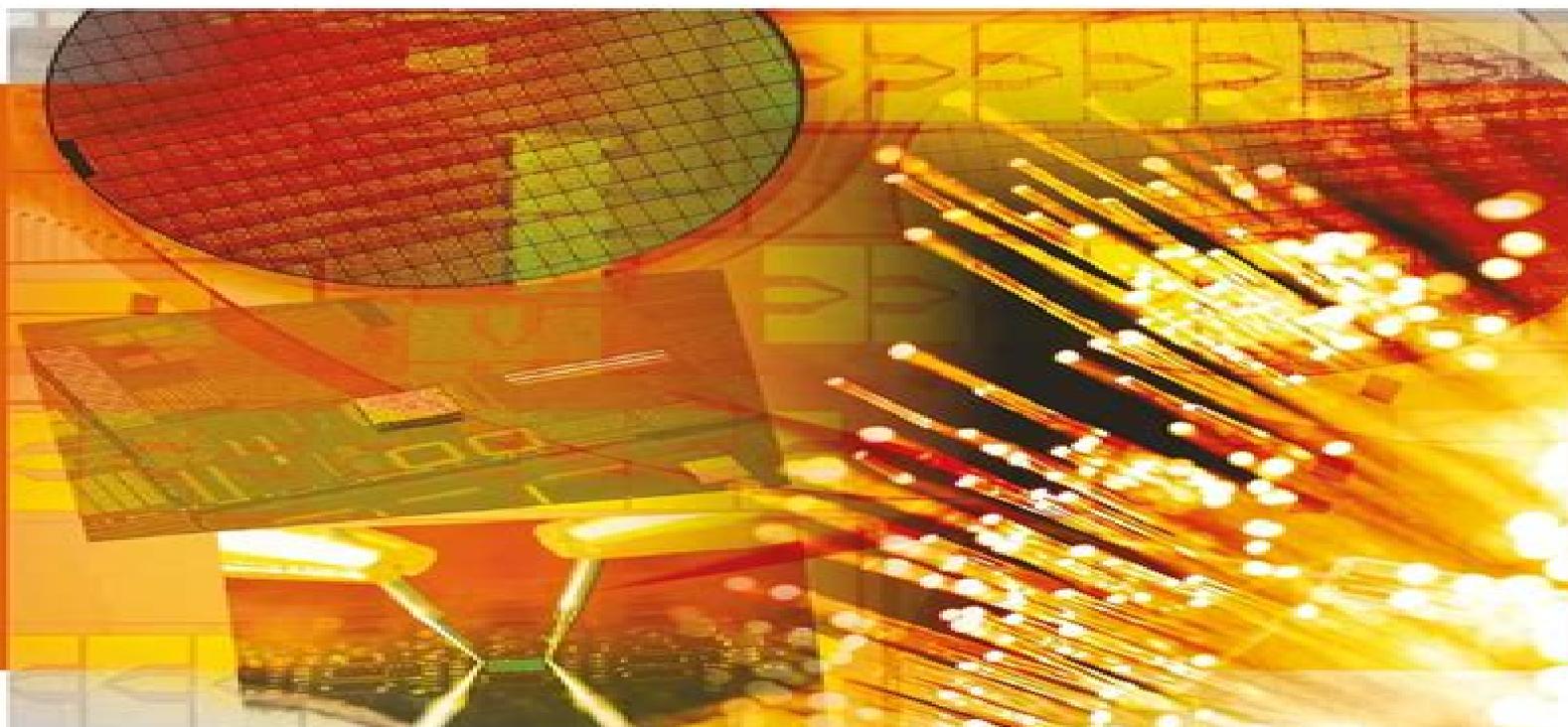


SERIES IN OPTICS AND OPTOELECTRONICS

Handbook of Silicon Photonics



Edited by
Laurent Vivien • Lorenzo Pavesi

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Handbook of Silicon Photonics Laurent Vivien, Lorenzo Pavesi, 2013-04-26 The development of integrated silicon photonic circuits has recently been driven by the Internet and the push for high bandwidth as well as the need to reduce power dissipation induced by high data rate signal transmission To reach these goals efficient passive and active silicon photonic devices including waveguide modulators photodetectors multiplexers light sources and various subsystems have been developed that take advantage of state of the art silicon technology Suitable for both specialists and newcomers Handbook of Silicon Photonics presents a coherent and comprehensive overview of this field from the fundamentals to integrated systems and applications It covers a broad spectrum of materials and applications emphasizing passive and active photonic devices fabrication integration and the convergence with CMOS technology The book s self contained chapters are written by international experts from academia and various photonics related industries The handbook starts with the basics of silicon as an optical material It then describes the building blocks needed to drive integrated silicon photonic circuits and explains how these building blocks are incorporated in complex photonic electronic circuits The book also presents applications of silicon photonics in numerous fields including biophotonics and photovoltaics With many illustrations including some in color this handbook provides an up to date reference to the broad and rapidly changing area of silicon photonics It shows how basic science and innovative technological applications are pushing the field forward

Silicon Photonics Graham T. Reed, Andrew P. Knights, 2004-10-29 The growing demand for instant and reliable communication means that photonic circuits are increasingly finding applications in optical communications systems One of the prime candidates to provide satisfactory performance at low cost in the photonic circuit is silicon Whilst silicon photonics is less well developed as compared to some other material technologies it is poised to make a serious impact on the telecommunications industry as well as in many other applications as other technologies fail to meet the yield performance cost trade offs Following a sympathetic tutorial approach this first book on silicon photonics provides a comprehensive overview of the technology Silicon Photonics explains the concepts of the technology taking the reader through the introductory principles on to more complex building blocks of the optical circuit Starting with the basics of waveguides and the properties peculiar to silicon the book also features Key design issues in optical circuits Experimental methods Evaluation techniques Operation of waveguide based devices Fabrication of silicon waveguide circuits Evaluation of silicon photonic systems Numerous worked examples models and case studies Silicon Photonics is an essential tool for photonics engineers and young professionals working in the optical network optical communications and semiconductor industries This book is also an invaluable reference and a potential main text to senior undergraduates and postgraduate students studying fibre optics integrated optics or optical network technology

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photonics and a perspective on what can be expected in the near future It is composed of a selected number of reviews authored by world leaders in the field and is written from both academic and industrial viewpoints An in depth discussion of the route towards fully integrated silicon photonics 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 microphotonics and optoelectronics

Silicon-Based Photonics Erich Kasper, Jinzhong Yu, 2020-07-24 Silicon photonics has evolved rapidly as a research topic with enormous application potential The high refractive index contrast of silicon on insulator SOI shows great promise for submicron waveguide structures suited for integration on the chip scale in the near infrared region Ge and GeSn Si heterostructures with different elastic strain levels already provide expansion of the spectral range high speed operation efficient modulation and switching of optical signals and enhanced light emission and lasing This book focuses on the integration of heterostructure devices with silicon photonics The authors have attempted to merge a concise treatment of classical silicon photonics with a description of principles prospects challenges and technical solution paths of adding silicon based heterostructures The book discusses the basics of heterostructure based silicon photonics system layouts and key device components keeping in mind the application background Special focus is placed on SOI based waveguide configurations and Ge and GeSn Si heterostructure devices for light detection modulation and light emission and lasing The book also provides an overview of the technological and materials science challenges connected with integration on silicon The first half of the book is mainly for readers who are interested in the topic because of its increasing importance in different fields while the latter half covers different device structures for light emission detection modulation extension of the wavelength beyond 1.6 μm and lasing as well as future challenges

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

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communications and computing performance continues and this in turn means that photonic circuits are finding ever increasing application areas This text provides an important and timely overview of the hot topics in the field covering the various aspects of the technology that form the research area of silicon photonics With contributions from some of the world's leading researchers in silicon photonics this book collates the latest advances in the technology Silicon Photonics the State of the Art opens with a highly informative foreword and continues to feature the integrated photonic circuit silicon photonic waveguides photonic bandgap waveguides mechanisms for optical modulation in silicon silicon based light sources optical detection technologies for silicon photonics passive silicon photonic devices photonic and electronic integration approaches applications in communications and sensors Silicon Photonics the State of the Art covers the essential elements of the entire field that is silicon photonics and is therefore an invaluable text for photonics engineers and professionals working in the fields of optical networks optical communications and semiconductor electronics It is also an informative reference for graduate students studying for PhD in fibre optics integrated optics optical networking microelectronics or telecommunications

Handbook of Photonics Mool C. Gupta, 1997-05-05 The rapidly growing area of photonics plays a critical role in many segments of industry such as optical communications information storage electronic display and other areas and is the subject of intense academic and industrial research The Handbook of Photonics serves as a single source reference book for this exciting field The book is divided into three sections Photonic Materials Photonic Devices and Optics Photonic Systems Each chapter within these sections is written by well known and respected authors and covers the latest information in many of the important aspects of photonics The Handbook of Photonics provides a complete reference for scientists engineers and students working in this field

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Silicon Photonics III Lorenzo Pavesi, David J. Lockwood, 2016-01-08 This book is volume III of a series of books on silicon photonics It reports on the development of fully integrated systems where many different photonics component are integrated together to build complex circuits This is the demonstration of the fully potentiality of silicon photonics It contains a number of chapters written by engineers and scientists of the main companies research centers and universities active in the field It can be of use for all those persons interested to know the potentialities and the recent applications of silicon photonics both in microelectronics telecommunication and consumer electronics market

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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

Silicon Photonics for Telecommunications and Biomedicine Sasan Fathpour, Bahram Jalali, 2016-04-19 Given silicon's versatile material properties use of low cost silicon photonics continues to move beyond light speed data transmission through fiber optic cables and computer chips Its application has also evolved from the device to the integrated system level A timely overview of this impressive growth **Silicon Photonics for Telecommunications** **Silicon Photonics, 2 Volume Set** M. Jamal Deen, Prasant K. Basu, 2026-04-13 Silicon Photonics Graham T. Reed, 2008 **Silicon Photonics and Photonic Integrated Circuits V** Silicon photonics and photonic integrated circuits, 2016

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