



# Optical Computing Hardware

**Piotr Antonik**



## **Optical Computing Hardware:**

Optical Computing Hardware Jürgen Jahns, Sing H. Lee, 2014-05-10 Optical Computing Hardware provides information pertinent to the advances in the development of optical computing hardware This book discusses the two application areas namely high performance computing and high throughput photonic switching Organized into 11 chapters this book begins with an overview of the requirements on hardware from a system perspective This text then presents the self electro optic effect devices SPEED the vertical cavity surface emitting microlasers VCSEL and the vertical to surface transmission electrophotonic device VSTEP Other chapters consider the fundamental principles of the devices and their operation either as logic devices or for optical interconnection applications This book discusses as well the planar optical microlens as an example of a refractive microlens of the gradient index type and explains the diffractive optical elements The final chapter describes a method for writing and reading optically in parallel from a three dimensional matrix by means of two photon interaction in photochromic organic materials This book is a valuable resource for engineers scientists and researchers

**Fundamentals of Optical Computing Technology** Xiujian Li, Zhengzheng Shao, Mengjun Zhu, Junbo Yang, 2018-05-12 This book presents the principles experimental technologies up to date research findings and applications of various optical computing technologies and devices It also discusses semiconductor multiple quantum well MQW photoelectronic devices vertical cavity surface emitting lasers VCSELs lasers micro optical elements and diffractive optical elements optical storage optical parallel interconnections and optical buffer technology as the main technologies for optical computing Furthermore it explores the potential of optical computing technology It offers those involved in optical design photonics and photoelectronic research and related industries insights into the fundamentals and theories of optical computing enabling them and to extend and develop the functions of fundamental elements to meet the requirement of optical computing systems

**A Hardware Compiler for Digital Optical Computing** Miles Murdocca, Vipul Gupta, Masoud Majidi, RUTGERS - THE STATE UNIV NEW BRUNSWICK NJ DEPT OF COMPUTER SCIENCE., 1992 A hardware compiler for translating descriptions of digital circuits from a hardware description language HDL into gate level layouts is under development at Rutgers University The layouts are customized for optical processors that make use of arrays of optical logic gates interconnected in free space with regular interconnection patterns such as perfect shuffles crossovers or global interconnects Specific processors that the hardware compiler supports include the S SEED based all optical processor developed at AT T Bell Labs the S SEED based all optical processor under development at the Photonics Center at RADC Griffiss AFB and the acousto optical modulator based RISC processor under development at OptiComp Corporation *Optical Computing* Optical Society of America, 1991 **The Handbook of Photonics** Mool C. Gupta, John Ballato, 2018-10-03 Reflecting changes in the field in the ten years since the publication of the first edition The Handbook of Photonics Second Edition explores recent advances that have affected this technology In this new updated second edition editor Mool Gupta is joined by John Ballato

strengthening the handbook with their combined knowledge and the continued contributions of world class researchers New in the Second Edition Information on optical fiber technology and the economic impact of photonics Coverage of emerging technologies in nanotechnology Sections on optical amplifiers and polymeric optical materials The book covers photonics materials devices and systems respectively An introductory chapter new to this edition provides an overview of photonics technology innovation and economic development Resting firmly on the foundation set by the first edition this new edition continues to serve as a source for introductory material and a collection of published data for research and training in this field making it the reference of first resort

**Cities and Their Vital Systems** Advisory Committee on Technology and Society,1989 *Cities and Their Vital Systems* asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible

*Optical SuperComputing* Shlomi Dolev,2008-08-12 This book constitutes the refereed proceedings of the The International Workshop on Optical SuperComputing OSC 2008 held in Vienna Austria August 2008 in conjunction with the 7th International Conference on Unconventional Computation UC 2008 OCS is a new annual forum for research presentations on all facets of optical computing for solving hard computation tasks Topics of interest include but are not limited to Design of optical computing devices electrooptics devices for interacting with optical computing devices practical implementations analysis of existing devices and case studies optical and laser switching technologies applications and algorithms for optical devices alpha practical x rays and nano technologies for optical computing

*Software Engineer's Reference Book* John A McDermid,2013-10-22 *Software Engineer's Reference Book* provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and students of computer science

**Computer Aided Design of Optoelectronic Multi-chip Modules** Jiao Fan,1994 [Optical Computing: An Introduction](#) Mohammad A. Karim,Abdul A.S. Awwal,2010-01-27 **Government Reports Announcements & Index**

,1994-03 **Government Reports Announcements & Index** ,1988 Energy Research Abstracts ,1990 **Brands and Their Companies** ,2007 **Mechatronic Systems 2004** S. O. Reza Moheimani,2005 **Micrographics and Optical Storage Equipment Review** ,1991 *Application of FPGA to Real-Time Machine Learning* Piotr Antonik,2018-05-18 This book lies at the interface of machine learning a subfield of computer science that develops algorithms for challenging tasks such as shape or image recognition where traditional algorithms fail and photonics the physical science of light which underlies many of the optical communications technologies used in our information society It provides a thorough introduction to reservoir computing and field programmable gate arrays FPGAs Recently photonic implementations of reservoir computing a machine learning algorithm based on artificial neural networks have made a breakthrough in optical computing possible In this book the author pushes the performance of these systems significantly beyond what was achieved before By interfacing a photonic reservoir computer with a high speed electronic device an FPGA the author successfully interacts with the reservoir computer in real time allowing him to considerably expand its capabilities and range of possible applications Furthermore the author draws on his expertise in machine learning and FPGA programming to make progress on a very different problem namely the real time image analysis of optical coherence tomography for atherosclerotic arteries

Companies and Their Brands ,2006 California. Court of Appeal (2nd Appellate District). Records and Briefs California (State)., **Design Automation for Optical Computing** Zheng Zhao (Ph. D.),2020 As a promising alternative to traditional CMOS circuits optics has demonstrated the ability to realize ultra high speed and low power information processing and communications For optical computing tasks including Boolean logic and neural networks however there still exist challenges such as optical power efficiency bulkiness and noise robustness To address the aforementioned issues this dissertation proposes a set of algorithms methodology and architectures for optical computing tasks which include a synthesis flow that significantly reduces the optical power loss a set of synthesis algorithms that exploits wavelength division multiplexing WDM for area efficient optical logic construction a hardware software codesign methodology that generates more area efficient and robust ONNs and an on chip integratable photonic Elman RNN architecture that empowers photonic RNNs the capability of training and tuning the state transformation for the first time For the first work we study the long neglected optical power depletion problem in previous optical boolean logic synthesis and propose graph transform techniques along with the exploitation of better optical devices to address this problem The experiments where various sources of optical power depletion are considered show the efficacy of our method of generating optical power efficient optical circuits which also helps to build a much more robust and scalable integrated photonic system In the second work we exploit a special property of light in optical logic synthesis to reduce the number of optical components The great potential of adopting WDM for efficient optical logic construction is pinpointed and a systematic synthesis flow is designed considering the practical capacity constraint Mathematically we demonstrate the affinity of the capacity constrained synthesis problem to

the hypergraph partitioning and the min cost max flow problem The experiments show the efficiency and efficacy of our method to generate smaller optical implementations for higher optical packaging density In the third and fourth work we focus on optical analog computing more specifically optical neuromorphic computing We study the hardware software co design of a slimmed architecture for optical neural networks The proposed methodology directly considers the structures and constraints of the optical hardware implementation during the software training process The new design greatly reduces the number of optical components in the previous architecture leading to a smaller optical hardware implementation The reduction of the cascaded optical components also brings about better robustness against device and environment related noise In the fourth work we propose the first photonic RNN architecture realizing the widely used Elman RNN model to facilitate the applications with sequential information To compensate for the delay variation due to manufacturing imperfections and or the environmental change we further introduce a hardware remediation mechanism along with a software training flow to selectively apply remediation to the most sensitive parts The simulation showed we could effectively reduce the performance degradation by using the proposed flow The effectiveness of proposed algorithms and techniques is demonstrated in this dissertation These approaches can achieve the improvements regarding specific metrics and eventually advance the design of more compact energy efficient and robust optical computing circuits

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