

Computational Lithography

XU MA
GONZALO R. ARCE

Computational Lithography By Xu Ma 2010 09 07

Khurshed Ahmad Shah



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Computational Lithography Xu Ma, Gonzalo R. Arce, 2011-01-06 A Unified Summary of the Models and Optimization Methods Used in Computational Lithography Optical lithography is one of the most challenging areas of current integrated circuit manufacturing technology The semiconductor industry is relying more on resolution enhancement techniques RETs since their implementation does not require significant changes in fabrication infrastructure Computational Lithography is the first book to address the computational optimization of RETs in optical lithography providing an in depth discussion of optimal optical proximity correction OPC phase shifting mask PSM and off axis illumination OAI RET tools that use model based mathematical optimization approaches The book starts with an introduction to optical lithography systems electric magnetic field principles and the fundamentals of optimization from a mathematical point of view It goes on to describe in detail different types of optimization algorithms to implement RETs Most of the algorithms developed are based on the application of the OPC PSM and OAI approaches and their combinations Algorithms for coherent illumination as well as partially coherent illumination systems are described and numerous simulations are offered to illustrate the effectiveness of the algorithms In addition mathematical derivations of all optimization frameworks are presented The accompanying MATLAB software files for all the RET methods described in the book make it easy for readers to run and investigate the codes in order to understand and apply the optimization algorithms as well as to design a set of optimal lithography masks The codes may also be used by readers for their research and development activities in their academic or industrial organizations An accompanying MATLAB software guide is also included An accompanying MATLAB software guide is included and readers can download the software to use with the guide at ftp://ftp.wiley.com/public/sci_tech_med/computational_lithography Tailored for both entry level and experienced readers Computational Lithography is meant for faculty graduate students and researchers as well as scientists and engineers in industrial organizations whose research or career field is semiconductor IC fabrication optical lithography and RETs Computational lithography draws from the rich theory of inverse problems optics optimization and computational imaging as such the book is also directed to researchers and practitioners in these fields

Nanoimprint Lithography: An Enabling Process for Nanofabrication Weimin Zhou, 2013-01-04 Nanoimprint Lithography An enabling process for nanofabrication presents a comprehensive description of nanotechnology that is one of the most promising low cost high throughput technologies for manufacturing nanostructures and an emerging lithography candidates for 22 16 and 11 nm nodes It provides the exciting multidisciplinary field offering a wide range of topics covering principles process material and application This book would be of specific interest for researchers and graduate students in the field of nanoscience nanotechnology and nanofabrication material physical chemical electric engineering and biology Dr Weimin Zhou is an associate professor at Shanghai Nanotechnology Promotion Center China

Directed Self-assembly of Block Co-polymers for Nano-manufacturing Roel Gronheid, Paul

Nealey,2015-07-17 The directed self assembly DSA method of patterning for microelectronics uses polymer phase separation to generate features of less than 20nm with the positions of self assembling materials externally guided into the desired pattern Directed self assembly of Block Co polymers for Nano manufacturing reviews the design production applications and future developments needed to facilitate the widescale adoption of this promising technology Beginning with a solid overview of the physics and chemistry of block copolymer BCP materials Part 1 covers the synthesis of new materials and new processing methods for DSA Part 2 then goes on to outline the key modelling and characterization principles of DSA reviewing templates and patterning using topographical and chemically modified surfaces line edge roughness and dimensional control x ray scattering for characterization and nanoscale driven assembly Finally Part 3 discusses application areas and related issues for DSA in nano manufacturing including for basic logic circuit design the inverse DSA problem design decomposition and the modelling and analysis of large scale template self assembly manufacturing techniques Authoritative outlining of theoretical principles and modeling techniques to give a thorough introduction to the topic Discusses a broad range of practical applications for directed self assembly in nano manufacturing Highlights the importance of this technology to both the present and future of nano manufacturing by exploring its potential use in a range of fields

Computational Materials, Chemistry, and Biochemistry: From Bold Initiatives to the Last Mile Sadasivan Shankar,Richard Muller,Thom Dunning,Guan Hua Chen,2021-01-25 This book provides a broad and nuanced overview of the achievements and legacy of Professor William Bill Goddard in the field of computational materials and molecular science Leading researchers from around the globe discuss Goddard s work and its lasting impacts which can be seen in today s cutting edge chemistry materials science and biology techniques Each section of the book closes with an outline of the prospects for future developments In the course of a career spanning more than 50 years Goddard s seminal work has led to dramatic advances in a diverse range of science and engineering fields Presenting scientific essays and reflections by students postdoctoral associates collaborators and colleagues the book describes the contributions of one of the world s greatest materials and molecular scientists in the context of theory experimentation and applications and examines his legacy in each area from conceptualization the first mile to developments and extensions aimed at applications and lastly to de novo design the last mile Goddard s passion for science his insights and his ability to actively engage with his collaborators in bold initiatives is a model for us all As he enters his second half century of scientific research and education this book inspires future generations of students and researchers to employ and extend these powerful techniques and insights to tackle today s critical problems in biology chemistry and materials Examples highlighted in the book include new materials for photocatalysts to convert water and CO₂ into fuels novel catalysts for the highly selective and active catalysis of alkanes to valuable organics simulating the chemistry in film growth to develop two dimensional functional films and predicting ligand protein binding and activation to enable the design of targeted drugs with minimal side effects **VLSI**

Design and Test Brajesh Kumar Kaushik, Sudeb Dasgupta, Virendra Singh, 2017-12-21 This book constitutes the refereed proceedings of the 21st International Symposium on VLSI Design and Test VDAT 2017 held in Roorkee India in June July 2017. The 48 full papers presented together with 27 short papers were carefully reviewed and selected from 246 submissions. The papers were organized in topical sections named digital design, analog mixed signal VLSI testing devices and technology, VLSI architectures, emerging technologies and memory system design, low power design and test, RF circuits architecture and CAD and design verification.

Sub-Micron Semiconductor Devices Ashish Raman, Deep Shekhar, Naveen Kumar, 2022-05-10 This comprehensive reference text discusses novel semiconductor devices including nanostructure field effect transistors, photodiodes, high electron mobility transistors and oxide based devices. The text covers submicron semiconductor devices, device modeling, novel materials for devices, novel semiconductor devices optimization techniques and their application in detail. It covers such important topics as negative capacitance devices, surface plasmon resonance devices, Fermi level pinning, external stimuli based optimization techniques, optoelectronic devices and architecture based optimization techniques. The book covers novel semiconductor devices with submicron dimensions. Discusses comprehensive device optimization techniques. Examines conceptualization and modeling of semiconductor devices. Covers circuit and sensor based application of the novel devices. Discusses novel materials for next generation devices. This text will be useful for graduate students and professionals in fields including electrical engineering, electronics and communication engineering, materials science and nanoscience.

Nanoelectronics Khurshed Ahmad Shah, 2025-10-21 The book covers the latest advancements in the field of nanoelectronics: interaction of light with matter, optical properties, surface plasmons, nanophotonic and plasmonic applications, nanomaterials engineering in nanoelectronics, fabrication techniques and applications. It presents the structure, properties and device applications of carbon nanotubes, graphene and silicene. The book further includes topics on perovskites and applications, quantum dots for optoelectronic sensing devices, computing applications and advanced applications in diagnostic and therapeutic tools. This book introduces topics on quantum phenomenon in nanoelectronics, transistors in modern computing, spintronic devices, flexible and wearable electronics and case studies and includes topics on development of hybrid material of one dimensional 1D and 2D carbon in nanomedicine, computed tomography, ultrasound and stapled peptides drug. Presents physical and electrical properties of nanoscale materials, applications of carbon nanotubes such as batteries, supercapacitors, biosensors, photodetectors and field emission sources and topics on the surface plasmon resonance, nanolasers, nanoantennas, photonic crystals and luminescent materials. Discusses quantum dots, quantum electronic devices, nanosensors, quantum computing device applications of perovskite materials, spintronics, drug delivery and gene therapy applications and the scaling laws in nanoelectronics materials for nano FET, high speed computing and advanced nanoscale FET architectures. Highlights recent developments in the field of nanoscale devices based on graphene and silicene such as biosensing and gas sensing, thermoelectric devices and

optoelectronic applications Explains the basic quantum theory pizelectricity in zinc oxide quantum dots and nanosensing includes the topics on data storage and quantum logic gates It is primarily written for senior undergraduates graduate students and academic researchers in the fields including physics computers nanoelectronics electrical engineering electronics and communications engineering nanoscience and nanotechnology

Supramolecular Chemistry in Corrosion and Biofouling Protection Viswanathan S. Saji, 2021-12-23 Supramolecular chemistry the chemistry beyond the molecule is a fascinating realm of modern science The design of novel supramolecular structures surfaces and techniques are at the forefront of research in different application areas including corrosion and biofouling protection A team of international experts provide a comprehensive view of the applications and potential of supramolecular chemistry in corrosion and biofouling prevention Chapter topics include types and fundamentals of supramolecules supramolecular polymers and gels host guest inclusion compounds organic inorganic hybrid materials metallo assemblies cyclodextrins crown ethers mesoporous silica and supramolecular structures of graphene and other advances Additional Features include Focuses on different aspects of supramolecular chemistry in corrosion and biofouling prevention Comprehensively covers supramolecular interactions that can provide better corrosion and biofouling protection Provides the latest developments in self healing coatings Explores recent research advancements in the suggested area Includes case studies specific to industries The different supramolecular approaches being investigated to control corrosion and biofouling are gathered in one well organized reference to serve senior undergraduate and graduate students research students engineers and researchers in the fields of corrosion science engineering biofouling and protective coatings

Biomechanics of Cells and Tissues Paola Lecca, 2013-01-18 The application of methodological approaches and mathematical formalisms proper to Physics and Engineering to investigate and describe biological processes and design biological structures has led to the development of many disciplines in the context of computational biology and biotechnology The best known applicative domain is tissue engineering and its branches Recent domains of interest are in the field of biophysics e g multiscale mechanics of biological membranes and films and filaments multiscale mechanics of adhesion biomolecular motors and force generation Modern hypotheses models and tools are currently emerging and resulting from the convergence of the methods and phylosophical apporaches of the different research areas and disciplines All these emerging approaches share the purpose of disentangling the complexity of organisms tissues and cells and mimiking the function of living systems The contributions presented in this book are current research highlights of six challenging and representative applicative domains of physisical engineering and computational approaches in medicine and biology i e tissue engineering modelling of molecular structures cell mechanics and cell adhesi n processes cancer physics and physico chemical processes of metabolic interactions Each chapter presents a compendium or a review of the original results achieved by authors in the last years Furthermore the book also wants to pinpoint the questions that are still open and that could propel the future research

Coded Optical Imaging Jinyang Liang, 2024-03-19 This book provides a comprehensive survey of coded optical imaging. Illustrated with 386 figures it takes readers from the fundamental concepts and theories to the latest research and applications in this field. It can be used in graduate level courses in optics and photonics. It can also benefit scientists and engineers in optical imaging, computer graphics and other related disciplines. This book starts from a brief history of coded optical imaging and key operations in its data acquisition and image reconstruction. It then presents the latest progress in technological development and applications in the areas of biomedicine, materials science, industrial inspection, optical physics, imaging science, information theory and more. Chapters describe the most representative techniques, exposing readers to key research themes including: Optical signal encoding, Image reconstruction techniques, Compressed sensing, Artificial intelligence, Metasurface, Structured light, Lensless imaging, Holography, Tomography, Light field imaging, Ultrafast imaging, Hyperspectral imaging, Polarization imaging, Super resolution imaging.

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