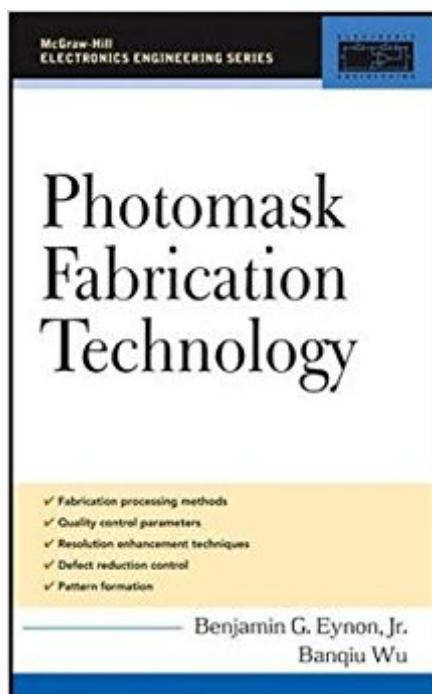


The book was found

Photomask Fabrication Technology (Professional Engineering)



Synopsis

Photomasks are defect-free optical templates -- the printing masters for the fabrication of integrated circuits (ICs). When IC feature sizes fall below the exposure tool's source wavelength, photomask fabrication becomes difficult: very strict mask critical dimension (CD) and feature placement specifications, intensive capital equipment investment, unique raw materials and applications, and special expertise requirements for photomask fabrication technologists are necessary to fabricate modern microelectronics. Thus the rapid recent growth of the field and the need for this book. This text details the science and technology of industrial photomask production, including fundamental principles, industrial production flows, technological evolution and development, and state of the art technologies. Focusing on industrial applications rather than pure science, the goal of the book is to provide a comprehensive reference for any engineer developing microelectronic manufacturing processes

Book Information

Series: Professional Engineering

Hardcover: 500 pages

Publisher: McGraw-Hill Education; 1 edition (August 11, 2005)

Language: English

ISBN-10: 0071445633

ISBN-13: 978-0071445634

Product Dimensions: 6 x 1.8 x 9.1 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 2.9 out of 5 stars 2 customer reviews

Best Sellers Rank: #2,612,325 in Books (See Top 100 in Books) #66 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Solid State #671 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Microelectronics #1631 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Manufacturing

Customer Reviews

Fabrication processing methods Quality control parameters Resolution enhancement techniques Defect reduction Photomask fabrication technologies and applications A must-have guide for engineers developing photomask manufacturing processes, Photomask Fabrication Technology fully explains the technology behind industrial photomask production, focusing on practical

applications. Readers will find complete details on fundamental principles, industrial production flows, technological evolution and development, and state-of-the-art advancements. Includes detailed coverage of: Data preparation methods and issues Pattern formation and transfer technology Metrology and finishing methods Resolution enhancement applications Next-generation lithography trends Gain the expertise required for modern photomask manufacturing with this definitive resource: Data preparation and design * Pattern generation * Pattern transfer * Photomask metrology * Defect control and finishing * Inspection, repair, and cleaning * Resolution enhancement techniques * Wafer fabrication issues * Future developments

Benjamin G. Eynon, Jr., is Senior Director of Product Marketing at KLA-Tencor Corporation. He has more than 18 years of experience in wafer and photomask industry technology. Banqiu Wu, Ph.D. is a Senior Staff Scientist at Photronics, Inc. He has expert-level photomask fabrication experience in the pattern transfer process.

Great intro book on photo-mask, development , manufacturing & history. That said, it needs to be updated.

Great product. Feels good in the hand. very good . i need it to change , good memory. delivery on time receive it next day .

[Download to continue reading...](#)

Photomask Fabrication Technology (Professional Engineering) Learn to Weld: Beginning MIG Welding and Metal Fabrication Basics - Includes techniques you can use for home and automotive repair, metal fabrication projects, sculpture, and more Fabrication Engineering at the Micro- and Nanoscale (The Oxford Series in Electrical and Computer Engineering) The Science and Engineering of Microelectronic Fabrication (The Oxford Series in Electrical and Computer Engineering) Professional Sheet Metal Fabrication (Motorbooks Workshop) Micromirror Technology for Maskless Lithography: Dynamics, Control and Fabrication Silica Optical Fiber Technology for Devices and Components: Design, Fabrication, and International Standards Diffractive Optics: Design, Fabrication, and Test (SPIE Tutorial Texts in Optical Engineering Vol. TT62) CPT 2016 Professional Edition (Current Procedural Terminology, Professional Ed. (Spiral)) (Current Procedural Terminology (CPT) Professional) Step-by-Step Medical Coding 2017 Edition - Text, Workbook, 2017 ICD-10-CM for Physicians Professional Edition, 2017 HCPCS Professional Edition and AMA 2017 CPT Professional Edition Package, 1e CPT 2013 Professional Edition (Current

Procedural Terminology, Professional Ed. (Spiral)) (Current Procedural Terminology (CPT) Professional) 2016 ICD-10-CM Physician Professional Edition (Spiral bound), 2016 HCPCS Professional Edition and AMA 2016 CPT Professional Edition Package, 1e CPT 2014 Professional Edition (Current Procedural Terminology, Professional Ed. (Spiral)) (Cpt / Current Procedural Terminology (Professional Edition)) CPT 2010 Professional Edition (Current Procedural Terminology, Professional Ed. (Spiral)) (Current Procedural Terminology (CPT) Professional) Blockchain: Step By Step Guide To Understanding The Blockchain Revolution And The Technology Behind It (Information Technology, Blockchain For Beginners, Bitcoin, Blockchain Technology) Fintech: Simple and Easy Guide to Financial Technology(Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, ... technology, equity crowdfunding) (Volume 1) FINTECH: Simple and Easy Guide to Financial Technology(Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, Financial services technology, equity crowdfunding) Polyurethanes: Science, Technology, Markets, and Trends (Wiley Series on Polymer Engineering and Technology) Transform Circuit Analysis for Engineering and Technology (Electronic Technology) Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)