

HANDBOOK of VLSI MICROLITHOGRAPHY

Principles, Tools, Technology and Applications • SECOND EDITION



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Handbook Of Vlsi Microlithography 2nd Edition Second Edition

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Handbook of VLSI Microlithography, 2nd Edition John N. Helbert, 2001-04 This handbook gives readers a close look at the entire technology of printing very high resolution and high density integrated circuit IC patterns into thin resist process transfer coatings including optical lithography electron beam ion beam and x ray lithography The book s main theme is the special printing process needed to achieve volume high density IC chip production especially in the Dynamic Random Access Memory DRAM industry The book leads off with a comparison of various lithography methods covering the three major patterning parameters of line space resolution line edge and pattern feature dimension control The book s explanation of resist and resist process equipment technology may well be the first practical description of the relationship between the resist process and equipment parameters The basics of resist technology are completely covered including an entire chapter on resist process defectivity and the potential yield limiting effect on device production Each alternative lithographic technique and testing method is considered and evaluated basic metrology including optical scanning electron microscope SEM techniques and electrical test devices along with explanations of actual printing tools and their design construction and performance The editor devotes an entire chapter to today s sophisticated complex electron beam printers and to the emerging x ray printing technology now used in high density CMOS devices Energetic ion particle printing is a controllable steerable technology that does not rely on resist and occupies a final section of the handbook

Handbook of VLSI Microlithography William B. Glendinning, John N. Helbert, 2012-12-02 This handbook gives readers a close look at the entire technology of printing very high resolution and high density integrated circuit IC patterns into thin resist process transfer coatings including optical lithography electron beam ion beam and x ray lithography The book s main theme is the special printing process needed to achieve volume high density IC chip production especially in the Dynamic Random Access Memory DRAM industry The book leads off with a comparison of various lithography methods covering the three major patterning parameters of line space resolution line edge and pattern feature dimension control The book s explanation of resist and resist process equipment technology may well be the first practical description of the relationship between the resist process and equipment parameters The basics of resist technology are completely covered including an entire chapter on resist process defectivity and the potential yield limiting effect on device production Each alternative lithographic technique and testing method is considered and evaluated basic metrology including optical scanning electron microscope SEM techniques and electrical test devices along with explanations of actual printing tools and their design construction and performance The editor devotes an entire chapter to today s sophisticated complex electron beam printers and to the emerging x ray printing technology now used in high density CMOS devices Energetic ion particle printing is a controllable steerable technology that does not rely on resist and occupies a final section of the handbook

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nucleation and early growth of diamond CVD The objective is to familiarize the reader with the scientific and engineering aspects of diamond CVD and to provide experiences researchers scientists and engineers in academia and industry with the latest developments in this growing field

High Density Plasma Sources Oleg A. Popov,1996-12-31 This book describes the design physics and performance of high density plasma sources which have been extensively explored in low pressure plasma processing such as plasma etching and planarization plasma enhanced chemical vapor deposition of thin films sputtered deposition of metals and dielectrics epitaxial growth of silicon and GaAs and many other applications This is a comprehensive survey and a detailed description of most advanced high density plasma sources used in plasma processing The book is a balanced presentation in that it gives both a theoretical treatment and practical applications It should be of considerable interest to scientists and engineers working on plasma source design and process development

Ceramic Cutting Tools E. Dow Whitney,2012-12-02 Interest in ceramics as a high speed cutting tool material is based primarily on favorable material properties As a class of materials ceramics possess high melting points excellent hardness and good wear resistance Unlike most metals hardness levels in ceramics generally remain high at elevated temperatures which means that cutting tip integrity is relatively unaffected at high cutting speeds Ceramics are also chemically inert against most workmetals

Ultra-Fine Particles Tyozi Uyeda,Chikara Hayashi,Akira Tasaki,1995-12-31 This book was written with several objectives in mind 1 To share with as many scientists and engineers as possible the intriguing scientific aspects of ultra fine particles UFPs and to show their potential as new materials 2 Entice such researchers to participate in the development of this emerging field 3 To publicize the achievements of the Ultra Fine Particle Project which was carried out under the auspices of the Exploratory Research for Advanced Technology program ERATO In addition to the members of the Ultra Fine Particle Project contributions from other pioneers in this field are included To achieve the first objective described above the uniformity of the contents and focus on a single central theme have been sacrificed somewhat to provide a broad coverage It is expected that the reader can discover an appropriate topic for further development of new materials and basic technology by reading selected sections of this book Alternately one may gain an overview of this new field by reviewing the entire book which can potentially lead to new directions in the development of UFPs

Biomedical Microsystems Ellis Meng,2011-06-22 Poised to dramatically impact human health biomedical microsystems bioMEMS technologies incorporate various aspects from materials science biology chemistry physics medicine and engineering Reflecting the highly interdisciplinary nature of this area Biomedical Microsystems covers the fundamentals of miniaturization biomaterials microfabrication and nanotechnology along with relevant applications Written by an active researcher who was recently named one of Technology Review s Young Innovators Under 35 the book begins with an introduction to the benefits of miniaturization It then introduces materials fabrication technology and the necessary components of all bioMEMS The author also covers fundamental principles and building blocks including microfluidic concepts lab on a chip systems and sensing and

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