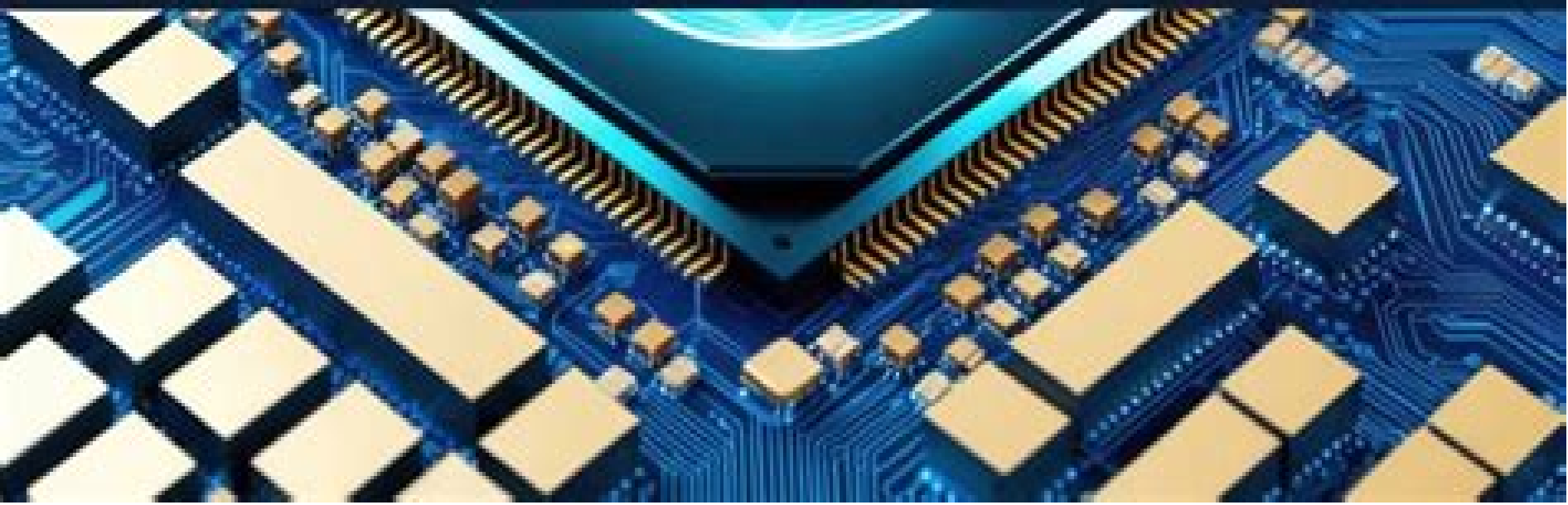




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**Aldo Craievich, G. Gerson Bezerra de
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resolution line edge and pattern feature dimension control The book's explanation of resist and resist process equipment technology may well be the first practical 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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Microlithography Bruce W. Smith, Kazuaki Suzuki, 2020-05-01 The completely revised Third Edition to the bestselling *Microlithography Science and Technology* provides a balanced treatment of theoretical and operational considerations from fundamental principles to advanced topics of nanoscale lithography The book is divided into chapters covering all important aspects related to the imaging materials and processes that have been necessary to drive semiconductor lithography toward nanometer scale generations Renowned experts from the world's leading academic and industrial organizations have provided in depth coverage of the technologies involved in optical deep ultraviolet DUV immersion multiple patterning extreme ultraviolet EUV maskless nanoimprint and directed self assembly lithography together with comprehensive descriptions of the advanced materials and processes involved New in the Third Edition In addition to the full revision of existing chapters this new Third Edition features coverage of the technologies that have emerged over the past several years including multiple patterning lithography design for manufacturing design process technology co optimization maskless lithography and directed self assembly New advances in lithography modeling are covered as well as fully updated information detailing the new technologies systems materials and processes for optical UV DUV immersion and EUV lithography The Third Edition of *Microlithography Science and Technology* authoritatively covers the science and engineering involved in the latest generations of microlithography and looks ahead to the future systems and technologies that will bring the next generations to fruition Loaded with illustrations equations tables and time saving references to the most current technology this book is the most comprehensive and reliable source for anyone from student to seasoned professional looking to better understand the complex world of microlithography science and technology

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Prosenjit Rai-Choudhury,1997-03-30 The dynamic field of lithography demands an authoritative handbook for process development and production and to aid in the training of scientists and engineers It contains process details recipes tables charts etc and is useful as a reference book or as a textbook

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Selected Papers on Optical Microlithography Harry L. Stover,1992 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

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