



Extreme Ultraviolet Lithography

Banqiu Wu, Ajay Kumar

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Master Extreme Ultraviolet Lithography Techniques

Produce high-density, ultrafast microchips using the latest EUVL methods. Written by industry experts, *Extreme Ultraviolet Lithography* details the equipment, materials, and procedures required to radically extend fabrication capabilities to wavelengths of 32 nanometers and below. Work with masks and resists, configure high-reflectivity mirrors, overcome power and thermal challenges, enhance resolution, and minimize wasted energy. You will also learn how to use Mo/Si deposition technology, fine-tune performance, and optimize cost of ownership.

- Design EUVL-ready photomasks, resist layers, and source-collector modules
- Assemble optical components, mirrors, microsteppers, and scanners
- Harness laser-produced and discharge pulse plasma sources
- Enhance resolution using proximity correction and phase-shift
- Generate modified illumination using holographic elements
- Measure critical dimensions using metrology and scatterometry
- Deploy stable Mo/Si coatings and high-sensitivity multilayers
- Handle mask defects, layer imperfections, and thermal instabilities

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