

# Lithography pdf

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Lithography is the process of transferring two dimensional patterns (e.g., a circuit pattern) on a mask to an underlying film or substrate. –Has the potential for image reduction using Standard photolithography is used to produce a master on Si from a mask. –Involves a transmission photomask. Fundamental to all of these processes is lithography, i.e. Most often the mask is a light sensitive •Optical lithography is defined as a lithographic technology that: –Uses photons to induce chemical reactions in a photoresist. –Has the potential for image reduction using projection optics. Lithography is the process of transferring two dimensional patterns (e.g., a circuit pattern) on a mask to an underlying film or substrate. No solution is apparent for wavelengths < nm Lithography. The patterns of integrated circuits are created on wafers by lithography. Figure illustrates schematically the lithographic process employed in IC fabrication OVERVIEW OF LITHOGRAPHY. the formation of three-dimensional (3D) relief images on the substrate Lithography is the process of transferring patterns of geometric shapes in a mask to a thin layer of radiation-sensitive material (called resist) covering the surface of a semiconductor wafer. A monomer, oligomer, or other pre-polymer (or polymer solution) is poured over the mask to conform Introduction to Semiconductor LithographyBasics of IC FabricationPatterningEtchingIon ImplantationProcess Integration circuitry of a modern microelectronic device. Most often the mask is a light sensitive polymer which allows the patterns to be transferred onto the polymer film An additive process (such as electroplating) changes the order of these steps: (1) lithography to create negative image of the pattern that is desired; and (2) selective deposition of material into the areas not protected by the lithographically produced pattern The steps of this critical manufacturing process are listed in Table Each step will be discussed at length in later chapters of this book, but a brief description of each will be given here •Optical lithography is defined as a lithographic technology that: –Uses photons to induce chemical reactions in a photoresist.

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Étape 1 -

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