

Nontraditional Approaches to Patterning



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Reviews

This is the very best publication we have read through right up until now. It is one of the most incredible book we have read through. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Miss Celia Volkman)

NONTRADITIONAL APPROACHES TO PATTERNING



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Materials Research Society. Hardback. Book Condition: new. BRAND NEW, Nontraditional Approaches to Patterning, Shu Yang, Younan Xia, Jie Liu, Charles D. E. Lakeman, More and more researchers are recognizing the importance of patterning materials into well-defined structures and their immediate impacts to many areas that include physics, chemistry, biology, and engineering. Compared to traditional lithographic techniques, nontraditional approaches (e.g., self-assembly, soft lithography, embossing, dip-pen lithography, scanning probe lithography and lase- induced patterning) provide avenues to explore new scientific phenomena, as well as to realize new devices in microelectronics, photonics, sensors, MEMS, and lab-on-chip systems with lower cost, higher throughput, and larger quantities. The ability to directly pattern materials in three dimensions (e.g., self-assembly, two-photon absorption and interference lithography) with tailored shape, size, and chemistry provides unparalleled control over material structures and properties. In this book, a wide range of researchers exchange views, learn about the latest advancement in materials science and engineering and develop new concepts and research directions in material patterning. Topics include: synthesis and assembly of nanostructures; soft lithography; SPM-based nanolithography; self-assembly; 3D patterning and other methods.



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