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Femtosecond Laser Processing of Materials

By Ahsan, Md. Shamim / Lee, Man Seop

Condition: New. Publisher/Verlag: Editorial Académica Española | Fundamentals, Technologies, and Applications | Femtosecond lasers have been considered as a promising tool for micro/nano-scale patterning of various materials. This book describes the fundamental concepts of lasers, laser processing technologies, recent advances in forming a variety of micro/nano-metric structures in glasses & metals and their potential application areas. A comparative study among various material processing technologies have been discussed: lithographic technologies, vapor deposition technologies, and laser processing technologies. The fundamental concepts of femtosecond laser-material interactions are also discussed. The primary focus of the book is to provide in depth ideas about the fabrication of various structures including micro/nano-holes, micro/nano-gratings, self-organized nanogratings, nanocones, micro/nano-ripples, spherical-shaped nanostructures, and ring-shaped micropatterns in a variety of materials. These kinds of micro/nano-structures have definite applications in photonics/optical devices, superhydrophobic surfaces, 3D optical data storage, micro/nano-fluidic devices, glass cutting, metal colorizing, friction reduction, and forming metamaterials. | Format: Paperback | Language/Sprache: spa | 197 gr | 220x150x7 mm | 136 pp.



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Reviews

It is an awesome publication which i actually have ever read through. it had been writtern really properly and valuable. I found out this book from my i and dad recommended this pdf to discover.

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This book is definitely not simple to begin on studying but quite fun to see. I actually have read and that i am sure that i will gonna read through yet again once again in the foreseeable future. It is extremely difficult to leave it before concluding, once you begin to read the book.

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