

Laser Processing and Chemistry

By Dieter Bauerle, D. Bauerle

This text provides an overview of the fundamentals and applications of laser-matter interactions, in particular with regard to laser-induced chemical reactions at gas-solid, liquid-solid and solid-solid interfaces. The book progresses from the background physics, through the chemical processes at surfaces, to measurement techniques and diagnostics.

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Review

"... In the present edition, some of the most fascinating new developments in the field have been included. Among those are investigations with ultrashort laser pulses, the fabrication of nanoclusters and nanocrystalline films, the synthesis of metastable materials, structural and chemical modifications of surfaces, etc. More attention is also given to fields of practical interest such as three-dimensional microfabrication, laser cleaning, polishing, and lithography. The book can be used by the experts in the field as a reference source and by the students and beginners in the field as a textbook." K.M. Salikhov, Applied Magnetic Resonance 2000/19/2

From the Back Cover

Laser Processing and Chemistry gives an overview of the fundamentals and applications of laser-matter interactions, in particular with regard to laser material processing. Special attention is given to laser-induced physical and chemical processes at gas-solid, liquid-solid, and solid-solid interfaces. Starting with the background physics, the book proceeds to examine applications of laser techniques in micro-machining, and the patterning, coating, and modification of material surfaces. This third edition has been revised and enlarged to cover new topics such as the synthesis of nanoclusters and nanocrystalline films, ultrashort-pulse laser processing, laser polishing, cleaning, and lithography. Graduate students, physicists, chemists, engineers, and manufacturers alike will find this book an invaluable reference work on laser processing.

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