



**Laser Processing and Diagnostics: Proceedings of  
an International Conference, University of Linz,  
Austria, July 15-19, 1984 (Springer Series in  
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Laser processing is now a rapidly increasing field with many real and potential applications in different areas of technology such as micromechanics, metallurgy, integrated optics, and semiconductor device fabrication. The necessity for such sophisticated light sources as lasers is based on the spatial coherence and the monochromaticity of laser light. The spatial coherence permits extreme focussing of the laser light resulting in the availability of high energy densities which can be used for strongly localized heat- and chemical-treatment of materials, with a resolution down to less than 1  $\mu\text{m}$ . When using pulsed or scanned cw-lasers, localization in time is also possible. Additionally, the monochromaticity of laser light allows for control of the depth of heat treatment and/or selective, nonthermal bond breaking - within the surface of the material or within the molecules of the surrounding reactive atmosphere - simply by tuning the laser wavelength. These inherent advantages of laser light permit micromachining of materials (drilling, cutting, welding etc. ) and also allow single-step controlled area processing of thin films and surfaces. Processes include structural transformation (removal of residual damage, grain growth in polycrystalline material, amorphization, surface hardening etc. ), etching, doping, alloying, or deposition. In addition, laser processing is not limited to planar substrates.

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