

## Principles Of Laser Materials Processing

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**Principles Of Laser Materials Processing**

Laser material processing refers to a growing school of techniques that use high-energy laser light to modify the surface of materials. It is one of the most common, and highest value, laser applications available to engineers, providing the means to rapidly machine an array of materials with outstanding repeatability down to the sub-microscale.

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Essential for anyone studying or working with lasers, Laser Processing of Engineering Materials provides a clear explanation of the underlying principles, including physics, chemistry and materials science, along with a framework of available laser processes and their distinguishing features and variables.

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principles of laser materials processing are reviewed in this article the fields covered include process variables temperature fields phase transformations physical and chemical properties and structure property relationships charts are presented that illustrate how the choice of process variables defines the dominant mechanism of

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In the field of laser beam hardening crowding-out of established heat treatment technologies is the only way to go. In that field laser does not provide any new principle of materials treatment. After a brief look at principles of steel hardening in general, laser beam hardening is specified.