

Principles Of Laser Materials Processing

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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.

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