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Processing Laser Materials

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and working of CO2 laser 25

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rigorous and detailed
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welding, surface modification, laser forming, and rapid prototyping. Each chapter includes an outline, summary, and example sets to help readers reinforce their understanding of the material.

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analysis and fluid flow;
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solidification of molten
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The informal style of Laser
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athermal photochemical,
photoelectric, and
photophysical mechanisms of
laser beam-material
interaction. Photochemistry
involves interactions
between the photons of laser
light and the chemical bonds

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that hold engineering
materials together.

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applications in laser
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the heat distribution during

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laser materials processing
the focal spot consists of
several TEM modes for most
high power lasers and
therefore the energy
distribution at the focal
spot is nonuniform and
localized hot spots are

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generated at the substrate
surface mathematical models
that describe the principles
of laser materials
processing are

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principles of laser
materials processing are
reviewed in this article the
fields covered include
process variables

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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

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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

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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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