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Laser beams are used to process metals, dielectric materials and semiconductors. Figure 1 indicates how the absorptivity of materials at ambient temperature varies as a function of laser wavelength. The wavelength of the UV krypton fluoride

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excimer laser and the IR Nd:YAG solid-state and CO<sub>2</sub> gas laser, are also shown in this figure. Due to the properties shown in Table 1, materials processing lasers are capable of both pyrolytic (processes which involve direct heating of the material) and ...

What happens when a laser beam interacts with a material ...

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Materials treats, from a physicist's point of view, the wide variety of processes that lasers can induce in materials. Physical phenomena ranging from optics to shock waves are discussed, as are applications in such diverse fields as semiconductor annealing, hole drilling and fusion plasma production.

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Laser-Beam Interactions with  
Materials: Physical ...

This SI is dedicated to recent progress  
in Laser Science and Technology, in  
particular in the field of laser materials  
processing and synthesis. The main  
objective is to revisit the basic  
phenomena involved in the interaction  
of wide range of laser systems still  
new and efficient devices including  
smart optics, high and low repetition

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rate processing as well as high and low beam fluences.

Laser Interactions with Materials: from Fundamentals to ...

the field of laser material interactions is inherently multidisciplinary upon impact of a laser beam on a material electromagnetic energy is converted first into electronic excitation and then into thermal

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Laser Beam Interactions with Solids  
In absorbing materials photons deposit energy  $E = h\nu = hc/\lambda$  where  $h =$  Planck's constant  $= 6.63 \times 10^{-34} \text{ J s}$   $c =$  speed of light  
Also photons also transfer momentum  $p = h/\lambda$   
Note: when light reflects from a mirror momentum transfer is doubled eg momentum

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transferred from Nd:YAG laser photon

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The field of laser-material interactions is inherently multidisciplinary. Upon impact of a laser beam on a material, electromagnetic energy is converted first into electronic excitation and then into thermal, chemical and mechanical energy.

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and Andreas Blatter}, year={1987} }

[PDF] Laser-beam interactions with materials : physical ...

The laser-matter interaction is an interdisciplinary and complicated subject[1]. When the material is irradiated with lasers, the laser energy will be firstly transformed into electronic excitation energy and then transferred to lattices of materials through collisions between electrons and lattices.

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Interaction Between Pulsed Laser and  
Materials

Fundamentals of Laser-Material

Interaction and Application to

Multiscale Surface Modification

Matthew S. Brown and Craig B. Arnold

AbstractLasers provide the ability to

accurately deliver large amounts of

energy into confined regions of a

material in order to achieve a desired

response.

Chapter 4 Fundamentals of Laser-  
Material Interaction and ...

Laser-Beam Interactions with

Materials treats, from a physicist's

point of view, the wide variety of

processes that lasers can induce in

materials. Physical phenomena

ranging from optics to shock waves

are discussed, as are applications in

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such diverse fields as semiconductor annealing, hole drilling and fusion plasma production.

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Laser-Beam Interactions with Materials treats, from a physicist's point of view, the wide variety of processes that lasers can induce in materials. Physical phenomena ranging from optics to shock waves are discussed, as are applications in such diverse fields as semiconductor annealing, hole drilling and fusion plasma production.

Amazon.com: Laser-Beam  
Interactions with Materials ...

This additive process uses a silica precursor gas coupled with a CO<sub>2</sub> laser beam to deposit material on the

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damaged surface with nanoscale precision. The precursor gas flows through a nozzle onto the optic surface along with the laser beam. The beam then decomposes the gas and deposits solid SiO<sub>2</sub> on the damaged optic surface.

## Studying Laser-Material Interaction with Multiphysics ...

the laser-material interaction, is very sensitive to the laser pulse shape, so we compared the effects produced by a Table 1. Parameters used for simulation of the alexandrite laser beam interaction with the P7295-2 carbon fiber. Pulse duration 20 ms  
Pulse repetition 1 Hz Energy density 36 J cm<sup>2</sup> Beam diameter 10 mm  
Wavelength 755 nm

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