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Effects of High-Power Laser Radiation describes the interactions between high-power laser beams and matter.

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Effects of High-Power Laser Radiation - 1st Edition

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Effects Of High Power Laser Radiation

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materials and effects on biological systems.

Effects of high-power laser radiation (Book) | OSTI.GOV

High-power laser light can produce damage in materials that are nominally transparent to the light at low intensity. The initiation of optical damage or optical breakdown occurs at some threshold value of laser irradiance. At values below the threshold, the light is transmitted, apparently without effect on the material.

High Power Lasers - an overview | ScienceDirect Topics

Effects of High-Power Laser Radiation describes the interactions between high-power laser beams and matter.

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on interactions such as heating, melting, vaporization, and plasma production.

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In general, the bend angle increases with an increase in laser power, attains a peak, and then decreases with further increase in the laser power. The increase in bend angle with laser power is due to more heat absorption which causes a higher peak temperature and hence more plastic deformation at the scanned surface (Kant, Joshi, & Dixit, 2013b). After attaining peak, the bend angle decreases with an increase in laser power which is mainly due to two reasons.

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Laser Power - an overview | ScienceDirect Topics
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Medical Effects High Intensity Laser is typically used in two modes – pulsed and continuous. Each mode affects the tissue differently and triggers different medical effects. Overall medical effects are biostimulation, pain relief, anti-inflammatory effect, superficial thermic effect and muscle relaxation.

All about High Intensity Laser | BTL High Intensity Laser
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We also discovered resonant effects in laser absorption and
damage that allow the duration between pulses to be tuned to
channel a greater or lesser fraction of the absorbed energy
into shockfront...

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Laser Blasts Flesh in Air Force Study | WIRED

The greater a laser pointer's output power, the more likely it will cause serious eye injuries, burn skin and temporarily or permanently impair the vision of pilots, drivers or bystanders. That much is clear. But judging the safety of that laser pointer in your desk drawer or in your kid's hand isn't simple.

Is Your Laser Pointer Dangerous Enough to Cause Eye Injury

...

The thermal effect of CO₂ high-power laser cutting on cut surface of steel plates is investigated. The effect of the input laser cutting parameters on the melted zone depth (MZ), the heat affected zone depth (HAZ), and the microhardness

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beneath the cut surface is analyzed.

High-Power Laser Cutting of Steel Plates: Heat Affected ...

The main feature observed after laser irradiation is the thickening of the pre-existing graphitic layer. Cross-sectional SEM imaging was performed to directly measure the thickness of the modified layers, and subsequent selective etching of the buried layers was employed to both assess their graphitic nature and enhance the SEM imaging contrast.

Effects of high-power laser irradiation on sub-superficial ...

HELEEOS uses the scaling laws of the Scaling the High energy laser And Relay Engagements (SHaRE) toolbox which is anchored to the wave optics code WaveTrain and all

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significant degradation effects, including thermal blooming due to molecular and aerosol absorption, scattering extinction, and optical turbulence, are represented in the model.

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