

Applications Of Laser Plasma Interactions Series In Plasma Physics And Fluid Dynamics

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The laser irradiation have shown a range of applications from fabricating, melting, and evaporating nanoparticles to changing their shape, structure, size, and size distribution. Laser induced plasma has used for different diagnostic and technological applications as detection, thin film deposition, and elemental identification.

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The main topics are the interaction of ultra-intense laser and plasma for the intensity near and over 10^{18} W/cm². In such regime, relativistic dynamics become essential. A new physics appears due to the relativistic effects, such as mass correction, relativistic nonlinear force, chaos physics of particle motions, and so on.

The Physics of Laser Plasmas and Applications - Volume 1

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The field of high-power laser-plasma interaction has grown in the last few decades, with applications ranging from laser-driven fusion and laser acceleration of charged particles to laser ablation of materials. This comprehensive text covers fundamental concepts including electromagnetics and electrostatic waves, parameter instabilities, laser driven fusion, charged particle acceleration and gamma rays.

High-Power Laser-Plasma Interaction by C. S. Liu

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thorough pedagogical grounding in the interaction of laser radiation with matter, laser-plasma accelerators, and inertial confinement fusion.

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Laser-Plasma Interaction. Inertial confinement fusion (ICF) is based on implosion of spherical shells. Intense laser beam ablation of the shell's outer surface creates the rocket reaction providing the momentum of the implosion. This same ablation instantly creates an outwardly moving plasma, within which the laser beam must propagate. The intense laser beam can create a variety of secondary processes in this plasma.

Laser-Plasma Interaction - Laboratory for Laser Energetics

Applications range from energy production by thermonuclear fusion to laboratory astrophysics, creation of intense sources of high-energy particle and radiation beams, and fundamental studies involving high-field quantum electrodynamics.

Plasma Physics: Applications | edX

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