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We are leading research in the fields of inertial fusion energy, warm dense matter and high-intensity laser plasma interaction physics. High energy density refers to energy densities exceeding 10^{11} Joules per cubic meter (J/m^3), or equivalent, pressures exceeding 1 megabar (Mbar). High energy density experiments span a wide range of areas of physics including plasma physics, laser and ...

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The next part of the book is mostly devoted to the underlying physics involved in inertial fusion, and covers hydrodynamics, hydrodynamic stability, radiative transport and equations-of-state of hot dense matter, laser and ion beam interaction with plasma. It discusses different approaches to inertial fusion (direct-drive by laser, indirect-drive by laser or ion beams), including recent developments in fast ignition.

Inertial fusion energy: the solution to damaging ...

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The Physics of Inertial Fusion by Atzeni, Stefano (ebook)

Tutorial on the Physics of Inertial Confinement Fusion for energy applications R. Betti University of Rochester and Princeton Plasma Physics Laboratory 3rd Meeting of the NAS panel on Inertial Fusion Energy Systems Albuquerque, NM, March 29-April 1, 2011 □

The Physics of Inertial Fusion: Beam Plasma Interaction ...

One of the critical issues in inertial fusion would be a spherically uniform target compression, which would be degraded by a non-uniform implosion. The implosion non-uniformity would be introduced by the Rayleigh-Taylor (R-T) instability, and the large density-gradient-scale length helps to reduce the R-T growth rate.

Tutorial on the Physics of Inertial Confinement Fusion

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Inertial confinement fusion (ICF) is an approach to fusion that relies on the inertia of the fuel mass to provide confinement. To achieve conditions under which inertial confinement is sufficient for efficient thermonuclear burn, a capsule (generally a spherical shell) containing thermonuclear fuel is compressed in an implosion process to ...

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