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Laser Interaction and Related Plasma Phenomena

**Edited by
Helmut J. Schwarz
and
Heinrich Hora**

Volume 2



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now dated but remain valid nevertheless However the term energy crisis is no longer the unusual new concept it was when
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purpose of this book is to point out that the science and technology of laser induced nuclear fusion are an extraordinary
subject which in some way not yet completely clear can solve the problem of gaining a pollution free and really inexhaustible
supply of inexpensive energy from the heavy hydrogen deuterium atoms found in all terrestrial waters The concept is very
obvious and very simple To heat solid deuterium or mixtures of deuterium and tritium superheavy hydrogen by laser pulses
so rapidly that despite the resulting expansion and cooling there still take place so many nuclear fusion reactions that the
energy produced is greater than the laser energy that had to be applied Compression of the plasma by the laser radiation
itself is a more sophisticated refinement of the process but one which at the present stage of laser technology is needed for
the rapid realization of a laser fusion reactor for power generation This concept of compression can also be applied to the
development of completely safe reactors with controlled microexplosions of laser compressed fissionable materials such as
uranium and even boron which fission completely safely into nonradioactive helium atoms **Energy Research Abstracts**
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