

Electromagnetic Instabilities In An Inhomogeneous Plasma

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Electromagnetic Instabilities In An Inhomogeneous

Shock-driven hydrodynamic instabilities in a plasma usually lead to interfacial mixing and the generation of electromagnetic fields, which are nonequilibrium processes coupling kinetics with meso- and macroscopic dynamics.

Hybrid fluid-particle modeling of shock-driven ...

Recently, two very different designs of optical cloaks that address the narrowband issue were proposed and experimentally demonstrated. One of them is a "carpet" cloak that is made of a dielectric and operates in a broad range of wavelengths [165–168]. The basic idea behind this approach is illustrated in Figure 9.28. The carpet cloak compresses an object in only one direction into a ...

Metamaterials - an overview | ScienceDirect Topics

Comprehensive theory of electromagnetic waves in a magnetized plasma. Wave propagation in cold and hot plasmas. Energy flow. Absorption by Landau and cyclotron damping and by transit time magnetic pumping (TTMP). Wave propagation in inhomogeneous plasma: accessibility, WKB theory, mode conversion, connection formulae, and Budden tunneling.

Physics (Course 8) < MIT

Advanced Electromagnetic Theory: Building on the foundation of PHYS0470, this course applies Maxwell's equations to study some of the key phenomena and applications of time-dependent electromagnetism: electromagnetic waves, radiation, and special relativity.

Full list of Physics Courses | Physics | Brown University

Charged particle motion in electromagnetic field, atomic processes in plasmas, electric breakdown of the gases, plasma quasi-neutrality, sheath, probes. Electron kinetics in low-temperature plasma, particle and energy fluxes, DC and RF driven discharges, instabilities of gas discharge plasmas. Prerequisites: consent of instructor. MAE 217B.

Mechanical and Aerospace Engineering

Pseudo-plasmas tend to neglect double layers, instabilities, filamentary structures, plasma beams, electric currents, and other potentially important properties. Cold, warm and hot plasmas. In the laboratory in the positive column of a glow discharge tube: "...there is a plasma composed of the same number of electrons and ions.

Plasma classification (types of plasma) | Plasma-Universe.com

The cosmic microwave background (CMB, CMBR), in Big Bang cosmology, is electromagnetic radiation which is a remnant from an early stage of the universe, also known as "relic radiation". The CMB is faint cosmic background radiation filling all space. It is an important source of data on the early universe because it is the oldest electromagnetic radiation in the universe, dating to the epoch of ...

Cosmic microwave background - Wikipedia

Optical tweezers (originally called single-beam gradient force trap) are scientific instruments that use a highly focused laser beam to hold and move microscopic and sub-microscopic objects like atoms, nanoparticles and droplets, in a manner similar to tweezers. If the object is held in air or vacuum without additional support, it can be called optical levitation.

Optical tweezers - Wikipedia

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Progress in Physics

Undergraduate Study. The Department of Mechanical Engineering (MechE) offers three programs of undergraduate study. The first of these, the traditional program that leads to the bachelor's degree in mechanical engineering, is a more structured program that prepares students for a broad range of career choices in the field of mechanical engineering.

Department of Mechanical Engineering < MIT

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