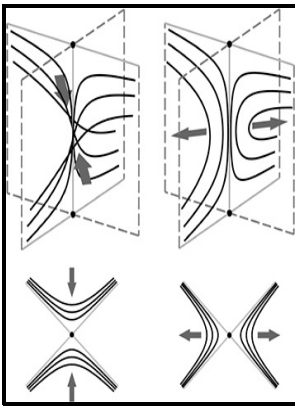


Reconnection of magnetic fields - magnetohydrodynamics and collisionless theory and observations

Cambridge University Press - Reconnection of Magnetic Fields



Description: -

- Nuclear fuel claddings -- Deterioration.
Spent reactor fuels -- Storage.
Magnetic reconnection
Magnetohydrodynamics
Reconnection of magnetic fields - magnetohydrodynamics and collisionless theory and observations
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Notes: Includes bibliographical references (p. 303-338) and index
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Tags: #Magnetotail #reconnection #onset #caused #by #electron #kinetics #with #a #strong #external #driver

Fast reconnection in relativistic plasmas: the magnetohydrodynamics tearing instability revisited

But the electron reconnection is in a very early stage, and such mild, small-scale electron reconnection barely changes the current sheet parameters, therefore the above feasibility analysis of the electron tearing mode is still valid.

Reconnection of Magnetic Fields: Magnetohydrodynamics and Collisionless Theory and Observations

Perturbations of all quantities are observed to grow in time, exponentially during the linear phase as shown in Fig.

Reconnection of Magnetic Fields

Basic Theory of MHD Reconnection: 2.

Magnetotail reconnection onset caused by electron kinetics with a strong external driver

Distinctive features of internally driven magnetotail reconnection. The first parameter is the north—south component of the interplanetary magnetic field IMF. Its membership of about 7,000 individuals also includes physicists, mathematicians, geologists, engineers, and others whose research and educational interests lie within the broad spectrum of subjects comprising contemporary astronomy.

Theory of magnetic reconnection in solar and astrophysical plasmas on JSTOR

The concept of reconnection has developed through recent advances in exploring the magnetospheres of the Sun and Earth through theory, computer simulations and spacecraft observations. All these quantities refer to the comoving frame of the plasma. These findings demonstrate that localized impulsive reconnection events can generate large-amplitude, oblique whistler wave pulses that propagate far outside the reconnection

region.

Mechanisms of Spontaneous Reconnection: From Magnetospheric to Fusion Plasma

In addition to the above electron-tearing mode instability, an ion-tearing mode instability has also been proposed to explain the onset of magnetotail reconnection. Further chapters consider specific areas of application such as magnetospheric dayside and tail reconnection, comparative reconnection in planetary systems and reconnection in astrophysical systems.

Collisionless Reconnection in Magnetohydrodynamic and Kinetic Turbulence

Taktakishvili, Spontaneous magnetic reconnection mechanisms in plasma. Space Sci Rev 178, 441—457 2013.

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