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Handbook on PLASMA INSTABILITIES

Ferdinand F. Cap

Handbook On Plasma Instabilities By Cap Ferdinand F

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Handbook on Plasma Instabilities Ferdinand F. Cap, 2013-09-11 Handbook on Plasma Instabilities Volume 3 is primarily intended to serve as a sourcebook for obtaining quick information and literature references pertaining to a specific topic. Such a handbook has to be formulated in a way that enables understanding of any one section without requiring full understanding of any other section. Volume 1 Chapters 1-13 presents the fundamental concepts of plasma physics with applications and has more the nature of a textbook treating basic plasma physics, containment, waves, and macroscopic instabilities. Volume 2 Chapters 14-17 covers various aspects of microinstabilities, beam plasma systems, stabilization methods, and parametric effects. The present volume Chapters 18-22 starts with a discussion on feedback and dynamic stabilization using parametric and other effects. It then treats nonlinear effects and laser plasma systems. One chapter is devoted to applications and use of instabilities. It concludes with a report on plasma waves and instabilities in cosmic space.

Handbook on Plasma Instabilities Ferdinand Cap, 2012-12-02 Handbook on Plasma Instabilities Volume 1 serves as an introduction to the field of plasma physics and plasma instabilities. Topics covered include basic plasma physics, statistical plasma theory, and magnetohydrodynamics (MHD) as well as the many species theory and plasma containment. The motion of individual particles, oscillations, and waves, and MHD instabilities of a real and an ideal plasma are also discussed. This volume is comprised of 13 chapters and begins with a survey of the various applications of plasma sciences and an overview of the fundamental concepts of plasma physics. Basic plasma physics, the physics of instabilities, orbit theory, kinetic theory, MHD, and the many fluid theory are then presented. The following chapters focus on the principles of plasma containment and waves in plasmas together with the basic features of plasma instabilities and their classification. The classical MHD stability theory of an ideal and of a real plasma is also described. The final chapter is devoted to drift waves and drift instabilities in inhomogeneous plasmas, paying particular attention to the theory of gradient instabilities and the microscopic theory of waves in non-homogeneous collisionless plasmas. This handbook is intended for beginners in plasma physics and plasma instabilities and for physicists and engineers working actively in the field. **National Library of Medicine Current**

Catalog National Library of Medicine (U.S.), 1983 Current Catalog National Library of Medicine (U.S.), 1983 First multi-year cumulation covers six years 1965-70 Mathematical Methods in Physics and Engineering with Mathematica

Ferdinand F. Cap, 2003-05-28 More than ever before, complicated mathematical procedures are integral to the success and advancement of technology, engineering, and even industrial production. Knowledge of and experience with these procedures is therefore vital to present and future scientists, engineers, and technologists. Mathematical Methods in Physics and Engineering Subject Catalog, 1976 Library of Congress, 1976 Scientific and Technical Aerospace Reports, 1975

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Handbook on Plasma Instabilities Volume 2 consists of four chapters on plasma instabilities Chapter 14 discusses the various aspects of microinstabilities Beam plasma systems are covered in Chapter 15 while the various stabilization methods are presented in Chapter 16 This book concludes with deliberations on parametric effects in Chapter 17 Other topics discussed include the microinstabilities of a homogeneous unmagnetized plasma kinetic theory of macroscopic instabilities basic beam physics and beam plasma instabilities The magnetic field configuration stabilization macroscopic nonmagnetic stabilization methods parametric instabilities in homogeneous unmagnetized plasmas and parametric effects in bounded and inhomogeneous plasmas are also elaborated in this text This publication is beneficial to students and researchers conducting work on unstable plasma **Academic American Encyclopedia** ,1980

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