Frances Bauer Octavio Betancourt Paul Garabedian

# Magnetohydrodynamic Equilibrium and Stability of Stellarators



## <u>Magnetohydrodynamic Equilibrium And Stability Of</u> <u>Stellarators</u>

Felix Bauer, O. Betancourt, P. Garabedian

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temperature plasmas in nonaxisymmetric toroidal magnetic fields or stellarators. The techniques are aimed at controlling nuclear fusion for continuous energy production While the focus is on the nonaxisymmetric toroidal field or heliotron developed at Kyoto University the physics applies equally to other stellarators and axisymmetric tokamaks The author covers all aspects of magnetic confinement formation of magnetic surfaces magnetohydrodynamic equilibrium and stability single charged particle confinement neoclassical transport and plasma heating He also reviews recent experiments and the prospects for the next generation of devices Magnetohydrodynamics and Spectral Theory Alexander E. Lifshits, 2012-12-06 2 The linearized ideal MHO equations 204 3 Spectral problems corresponding to evolutionary problems 211 4 Stability of equilibrium configurations and the Energy Principle 215 5 Alternative forms of the plasma potential energy 220 6 Minimization of the potential energy with respect to a parallel displacement 222 7 Classification of ideal MHO instabilities 224 8 The linearized non ideal MHO equations 226 Chapter 6 Homogeneous and discretely structured plasma oscillations 229 I Introduction 229 2 Alfven waves in an incompressible ideal plasma 230 3 Cold ideal plasma oscillations 233 4 Compressible hot plasma oscillations 236 5 Finite resistivity effects 239 6 Propagation of waves generated by a local source 240 7 Stratified plasma oscillations 247 8 Oscillations of a plasma slab 254 9 Instabilities of an ideal stratified gravitating plasma 256 10 Instabilities of a resistive stratified gravitating plasma 262 Chapter 7 MHO oscillations of a gravitating plasma slab 265 I Introduction 265 2 Gravitating slab equilibrium 266 3 Oscillations of a hot compressible plasma slab 267 4 Investigation of the slab stability via the Energy Principle 270 5 On the discrete spectrum of the operator Kk 274 6 On the essential spectrum of the operator Kk 279 7 On the discrete spectrum embedded in the essential spectrum 282 8 The eigenfunction expansion formula 285 9 Excitation of plasma oscillations by an external power source 288 10 The linearized equations governing resistive gravitating plasma slab oscillations 290II Heuristic investigation of resistive instabilities

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differential equations and variational calculus but prior knowledge of plasma physics is not required P. Freidberg, 2014-06-26 Comprehensive self contained and clearly written this successor to Ideal Magnetohydrodynamics 1987 describes the macroscopic equilibrium and stability of high temperature plasmas the basic fuel for the development of fusion power Now fully updated this book discusses the underlying physical assumptions for three basic MHD models ideal kinetic and double adiabatic MHD Included are detailed analyses of MHD equilibrium and stability with a particular focus on three key configurations at the cutting edge of fusion research the tokamak stellarator and reversed field pinch Other new topics include continuum damping MHD stability comparison theorems neoclassical transport in stellarators and how quasi omnigeneity quasi symmetry and quasi isodynamic constraints impact the design of optimized stellarators Including full derivations of almost every important result in depth physical explanations throughout and a large number of problem sets to help master the material this is an exceptional resource for graduate students and researchers in plasma and fusion physics

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Fundamentals of Plasma Physics and Controlled Fusion Arjun Goswami,2025-02-20 Fundamentals of Plasma Physics and Controlled Fusion is a comprehensive guide to plasma physics and the quest for controlled fusion energy We explore the study of plasmas the fourth state of matter made up of charged particles and delve into the potential of controlled fusion to create clean energy by fusing atomic nuclei We cover the basics of plasma physics including plasma behavior and creation and dive deep into controlled fusion explaining its science and the challenges of building a practical fusion reactor The book is written clearly and accessibly making it valuable for both students and researchers It also discusses fusion energy s potential to address global energy problems Fundamentals of Plasma Physics and Controlled Fusion is an essential resource for anyone interested in this exciting field of research

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