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Magnetohydrodynamic Equilibrium and Stability of Stellarators

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Magnetohydrodynamic Equilibrium And Stability Of Stellarators:

Magnetohydrodynamic Equilibrium and Stability of Stellarators F. Bauer,O. Betancourt,P. Garabedian,2012-12-06 In this book we describe in detail a numerical method to study the equilibrium and stability of a plasma confined by a strong magnetic field in toroidal geometry without two dimensional symmetry The principal appli cation is to stellarators which are currently of interest in thermonuclear fusion research Our mathematical model is based on the partial differential equations of ideal magnetohydrodynamics The main contribution is a computer code named BETA that is listed in the final chapter This work is the natural continuation of an investigation that was presented in an early volume of the Springer Series in Computational Physics cf 3 It has been supported over a period of years by the U S Department of Energy under Contract DE AC02 76ER03077 with New York University We would like to express our gratitude to Dr Franz Herrnegger for the assistance he has given us with the preparation of the manuscript We are especially indebted to Connie Engle for the high quality of the final typescript New York F BAUER October 1983 O BETANCOURT P GARABEDIAN Contents 1 Introduction 1 2 Synopsis of the Method 3 1 Variational principle 3 2 Coordinate system 6 3 Finite Difference Scheme 8 1 Difference equations 8 2 Island structure 10 3 Accelerated iteration procedure 12 Nonlinear Stability 15 4 1 Second minimization 15 2 Test functions and convergence studies 17 3 Comparison with exact solutions 19 5 The Mercier Criterion 22 1 Local mode analysis 22 2 Computational method 23   Magnetohydrodynamic Equilibrium and Stability of Stellarators Felix Bauer,O. Betancourt,P. Garabedian,2011-10-30 In this book we describe in detail a numerical method to study the equilibrium and stability of a plasma confined by a strong magnetic field in toroidal geometry without two dimensional symmetry The principal appli cation is to stellarators which are currently of interest in thermonuclear fusion research Our mathematical model is based on the partial differential equations of ideal magnetohydrodynamics The main contribution is a computer code named BETA that is listed in the final chapter This work is the natural continuation of an investigation that was presented in an early volume of the Springer Series in Computational Physics cf 3 It has been supported over a period of years by the U S Department of Energy under Contract DE AC02 76ER03077 with New York University We would like to express our gratitude to Dr Franz Herrnegger for the assistance he has given us with the preparation of the manuscript We are especially indebted to Connie Engle for the high quality of the final typescript New York F BAUER October 1983 O BETANCOURT P GARABEDIAN Contents 1 Introduction 1 2 Synopsis of the Method 3 1 Variational principle 3 2 Coordinate system 6 3 Finite Difference Scheme 8 1 Difference equations 8 2 Island structure 10 3 Accelerated iteration procedure 12 Nonlinear Stability 15 4 1 Second minimization 15 2 Test functions and convergence studies 17 3 Comparison with exact solutions 19 5 The Mercier Criterion 22 1 Local mode analysis 22 2 Computational method 23   Magnetohydrodynamic Equilibrium and Stability of Stellarators Frances Bauer,Octavio Betancourt,Paul Garabedian,1984   *Magnetohydrodynamic Stability of Tokamaks* Hartmut Zohm,2015-02-09 This book bridges the gap between general plasma physics lectures and the real world

problems in MHD stability In order to support the understanding of concepts and their implication it refers to real world problems such as toroidal mode coupling or nonlinear evolution in a conceptual and phenomenological approach Detailed mathematical treatment will involve classical linear stability analysis and an outline of more recent concepts such as the ballooning formalism The book is based on lectures that the author has given to Master and PhD students in Fusion Plasma Physics Due its strong link to experimental results in MHD instabilities the book is also of use to senior researchers in the field i e experimental physicists and engineers in fusion reactor science The volume is organized in three parts It starts with an introduction to the MHD equations a section on toroidal equilibrium tokamak and stellarator and on linear stability analysis Starting from there the ideal MHD stability of the tokamak configuration will be treated in the second part which is subdivided into current driven and pressure driven MHD This includes many examples with reference to experimental results for important MHD instabilities such as kinks and their transformation to RWMs infernal modes peeling modes ballooning modes and their relation to ELMs Finally the coverage is completed by a chapter on resistive stability explaining reconnection and island formation Again examples from recent tokamak MHD such as sawteeth CTMs NTMs and their relation to disruptions are extensively discussed   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

Extension of Stellarator Approximation in Magnetohydrodynamic Equilibrium and Stability of Toroidal Helical Systems Jiro Todoroki,Nagoya Daigaku. Purazuma Kenkyūjo,1989   Stellarator and Heliotron Devices Masahiro Wakatani,1998 This monograph describes plasma physics for magnetic confinement of high 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   Computational Techniques And Applications: Ctac 95 - Proceedings Of The Seventh Biennial Conference Robert L May,Alan K Easton,1996-08-30 This proceedings contains seven invited papers and 100 contributed papers The topics covered range from studies of theoretical aspects of computational methods through to simulations of large scale industrial processes with an emphasis on the efficient use of computers to solve practical problems Developers and users of computational techniques who wish to keep up with recent developments in the application of modern computational technology to problems in science and engineering will find much of interest in this volume   **Fusion Energy Update** ,1986   *Scientific and Technical Aerospace Reports* ,1995   *The Bieberbach Conjecture: Proceedings of the Symposium on the Occasion of the Proof* Albert Baernstein (II),Albert Baernstein,1986 Louis de Branges of Purdue University is recognized as the mathematician who proved Bieberbach s conjecture This book offers insight into the nature of the conjecture its history and its proof It is suitable for research mathematicians and analysts   Physics Briefs ,1993   Applied Mechanics Reviews ,1983   Nuclear Science Abstracts ,1974   Energy Research Abstracts ,1995   INIS Atomindex ,1995   Nuclear Fusion Edward Morse,2018-10-15 The pursuit of nuclear fusion as an energy source requires a broad knowledge of several disciplines These include plasma physics atomic physics electromagnetics materials science computational modeling superconducting magnet technology accelerators lasers and health physics Nuclear Fusion distills and combines these disparate subjects to create a concise and coherent foundation to both fusion science and technology It examines all aspects of physics and technology underlying the major magnetic and inertial confinement approaches to developing nuclear fusion energy It further chronicles latest developments in the field and reflects the multi faceted nature of fusion research preparing advanced undergraduate and graduate students in physics and engineering to launch into successful and diverse fusion related research Nuclear Fusion reflects Dr Morse s research in both magnetic and inertial confinement fusion working with the world s top laboratories and embodies his extensive thirty five year career in teaching three courses in fusion plasma physics and fusion technology at University of California Berkeley   *Documentation of Plasma Physics. Pt. 1, Experimental Plasma Physics [and] Theoretical Plasma Physics* ,1981   **Nuclear Power Reactor Instrumentation Systems Handbook** Joseph M. Harrer,James G. Beckerley,1973   Nuclear Fusion ,2006

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