Frances Bauer Octavio Betancourt Paul Garabedian

# Magnetohydrodynamic Equilibrium and Stability of Stellarators



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

Jiro Todoroki, Nagoya Daigaku. Purazuma Kenkyūjo

#### 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 application 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 of 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 of 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

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

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#### **Table of Contents Magnetohydrodynamic Equilibrium And Stability Of Stellarators**

- 1. Understanding the eBook Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - The Rise of Digital Reading Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - o Advantages of eBooks Over Traditional Books
- 2. Identifying Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Personalized Recommendations
  - Magnetohydrodynamic Equilibrium And Stability Of Stellarators User Reviews and Ratings
  - Magnetohydrodynamic Equilibrium And Stability Of Stellarators and Bestseller Lists

- 5. Accessing Magnetohydrodynamic Equilibrium And Stability Of Stellarators Free and Paid eBooks
  - o Magnetohydrodynamic Equilibrium And Stability Of Stellarators Public Domain eBooks
  - Magnetohydrodynamic Equilibrium And Stability Of Stellarators eBook Subscription Services
  - Magnetohydrodynamic Equilibrium And Stability Of Stellarators Budget-Friendly Options
- 6. Navigating Magnetohydrodynamic Equilibrium And Stability Of Stellarators eBook Formats
  - o ePub, PDF, MOBI, and More
  - Magnetohydrodynamic Equilibrium And Stability Of Stellarators Compatibility with Devices
  - Magnetohydrodynamic Equilibrium And Stability Of Stellarators Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Highlighting and Note-Taking Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Interactive Elements Magnetohydrodynamic Equilibrium And Stability Of Stellarators
- 8. Staying Engaged with Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Magnetohydrodynamic Equilibrium And Stability Of Stellarators
- 9. Balancing eBooks and Physical Books Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Magnetohydrodynamic Equilibrium And Stability Of Stellarators
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Setting Reading Goals Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Fact-Checking eBook Content of Magnetohydrodynamic Equilibrium And Stability Of Stellarators
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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