



# Advanced Tokamak Stability Theory (Paperback)

By Linjin Zheng

Morgan Claypool Publishers, United States, 2015. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book. This book describes the advanced stability theories for magnetically confined fusion plasmas, especially in tokamaks. As the fusion plasma sciences advance, the gap between the textbooks and cutting-edge researches gradually develops. This book fills in this gap. It focuses on the advanced topics such as the spectrum of magnetohydrodynamics in tokamaks, the interchange modes, ballooning modes, and toroidal Alfvén eigenmodes, etc. in the toroidal geometry. The theories are laid out in parallel with the ideal, resistive magnetohydrodynamics and gyrokinetics formalisms. It details the derivations of the advanced stability theories in this field, such as the ballooning mode representation, the resistive magnetohydrodynamics singular layer theory by A. Glasser, et al. and the gyrokinetic theory. Special efforts are made to explain how the physics problems are formulated mathematically and how to solve them analytically or semi-analytically. Besides the advanced theories, the book also discusses the intuitive physics pictures for various experimentally observed phenomena, such as the confinement modes (L-, I-, and H-modes), the transport barrier, nonlocal transport, edge localized modes, blob transport, and edge harmonic oscillations, etc.



**READ ONLINE**  
[ 6.53 MB ]

## Reviews

*This composed pdf is excellent. It really is basic but excitement in the 50 % in the book. Your lifestyle span will likely be change when you comprehensive looking at this book.*

-- **Tom Fisher**

*Completely essential read publication. It is really basic but excitement in the fifty percent of the book. You will not really feel monotony at anytime of your respective time (that's what catalogues are for about in the event you ask me).*

-- **Lexie Paucek PhD**

## Other eBooks



### [Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. \[Us English\] \(Paperback\)](#)

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to expand and inspire young minds; this is...



### [Programming in D: Tutorial and Reference \(Paperback\)](#)

Ali Cehreli, 2015. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The main aim of this book is to teach D to readers who are new to computer programming. Although having experience...



### [Adult Coloring Book Birds: Advanced Realistic Bird Coloring Book for Adults \(Paperback\)](#)

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Take your coloring to the next level with this Advanced Adult Coloring Book of Birds! Get more...



### [Nautical Coloring Book: An Advanced Adult Coloring Book of Nautical, Maritime and Seaside Scenes \(Paperback\)](#)

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Take your coloring to the next level with this Advanced Adult Coloring Book! Get more realistic coloring...



### [Adult Coloring Books Reptiles: A Realistic Adult Coloring Book of Lizards, Snakes and Other Reptiles \(Paperback\)](#)

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Take your coloring to the next level with this Advanced Adult Coloring Book of Reptiles! Get more...



### [A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half \(Paperback\)](#)

Createspace, United States, 2014. Paperback. Book Condition: New. 251 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The ultimate learn-by-doing approachWritten for beginners, useful for experienced developers who want to sharpen their skills and don t mind...