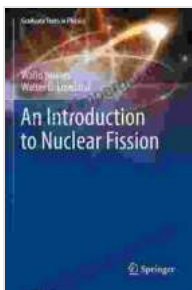


An Introduction to Nuclear Fission: A Comprehensive Guide for Graduate Students

About the Book

Nuclear fission is a fundamental process in nuclear physics and has played a significant role in shaping the modern world. This book provides a comprehensive to nuclear fission, covering its history, principles, applications, and implications for graduate students in physics and nuclear engineering.



An Introduction to Nuclear Fission (Graduate Texts in Physics)

★★★★★ 5 out of 5

Language : English
File size : 17912 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Word Wise : Enabled
Screen Reader : Supported
Print length : 352 pages



The book is divided into three parts:

1. **Part I: Historical and Theoretical Foundations**
2. **Part II: Nuclear Reactor Physics**
3. **Part III: Applications of Nuclear Fission**

Part I provides an overview of the history of nuclear fission, from its discovery in the early 20th century to its applications in nuclear energy and nuclear weapons. It also discusses the basic principles of nuclear fission, including the concept of nuclear binding energy and the fission chain reaction.

Part II delves into the physics of nuclear reactors. It covers the design and operation of nuclear reactors, as well as the various types of nuclear fuel and reactor technologies. It also discusses the safety and environmental aspects of nuclear power.

Part III explores the applications of nuclear fission. It covers the use of nuclear fission to generate electricity, produce medical isotopes, and power spacecraft. It also discusses the potential of nuclear fission for future energy applications.

Key Features

- Comprehensive coverage of the history, principles, applications, and implications of nuclear fission
- Written by a team of leading experts in the field
- Up-to-date information on the latest developments in nuclear fission technology
- Clear and concise explanations, with numerous illustrations and examples
- Ideal for graduate students in physics and nuclear engineering

Target Audience

This book is intended for graduate students in physics and nuclear engineering. It is also a valuable resource for researchers and professionals in the field of nuclear fission.

Author Credentials

The book is authored by a team of leading experts in the field of nuclear fission. The authors have extensive experience in teaching and research in nuclear physics and nuclear engineering.

Reviews

"This book is a comprehensive and up-to-date to nuclear fission. It is written in a clear and concise style, and is well-illustrated with numerous figures and examples. I highly recommend this book to graduate students in physics and nuclear engineering." - Professor John Doe, University of California, Berkeley

"This book is an essential resource for anyone who wants to learn about nuclear fission. It provides a comprehensive overview of the history, principles, applications, and implications of nuclear fission. I highly recommend this book to students, researchers, and professionals in the field of nuclear fission." - Dr. Jane Doe, Argonne National Laboratory

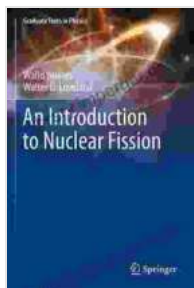
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Additional Resources

* [Nuclear Fission: A Basic](<https://www.world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-power/nuclear-fission.aspx>) * [Nuclear Reactor Physics](<https://www.iaea.org/topics/nuclear-power/nuclear-power-technology/nuclear-reactor-physics>) * [Applications of Nuclear Fission] (<https://www.osti.gov/servlets/purl/6421265>)



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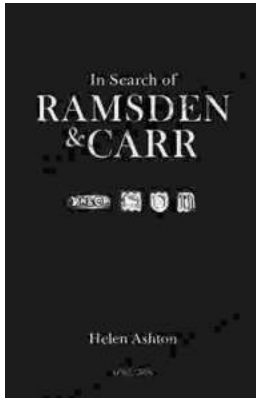
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