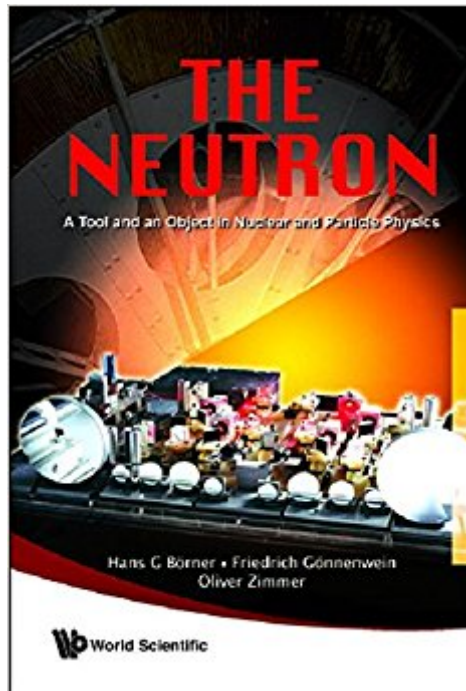




Ebook Directory
the best source of ebook

The book was found

The Neutron: A Tool And An Object In Nuclear And Particle Physics



Synopsis

The reactor-based laboratory at the Institut Laue-Langevin is recognized as the world's most productive and reliable source of slow neutrons for the study of low energy particle and nuclear physics. The book highlights the impact of about 600 very diverse publications about work performed in these fields during the past more than 30 years of reactor operation at this institute. On one hand neutrons are used as a tool to generate nuclei in excited states for studying their structure and decay, in particular fission. Uniquely sensitive experiments can tell us a great deal about the symmetry characteristics of nuclei and their fission properties. On the other hand, studies with slow neutrons as the object of investigation are complementary to studies at huge particle accelerators. Experiments carried out at the ILL contribute to elucidate basic questions about the building blocks of the Universe by analyzing very precisely subtle neutron properties.

Book Information

Hardcover: 284 pages

Publisher: World Scientific Publishing Company; 1 edition (April 13, 2012)

Language: English

ISBN-10: 9814273082

ISBN-13: 978-9814273084

Product Dimensions: 1 x 6.8 x 10 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,998,133 in Books (See Top 100 in Books) #20 in Books > Textbooks > Engineering > Nuclear Engineering #499 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Radar #846 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear

Customer Reviews

"The style is succinct and very focused for the chapter on nuclear fission. The authors manage to give us a panorama of the experimental situation, which in itself is not easy at all. It is a useful reference to keep in hand." -- IL Nouvo Saggiatore

The reactor-based laboratory at the Institut Laue Langevin is recognized as the world's most productive and reliable source of slow neutrons for the study of low energy particle and nuclear physics. This book highlights for the first time the impact of about 600 very diverse publications,

produced in these fields at this institute during the past 30 years. On one hand neutrons are used as a tool to generate nuclei in excited states for studying their structure and behavior. On the other hand, uniquely sensitive experiments using neutrons directly as the object of investigation, can tell us a great deal about the symmetry characteristics of nuclei, particles, and their interactions. Complementary to studies at huge particle accelerators the experiments carried out at the ILL contribute to elucidate important questions about the building blocks of the Universe by carrying out subtle, very precise experiments at very low energies.

[Download to continue reading...](#)

The Neutron: A Tool and an Object in Nuclear and Particle Physics
Finite Element Methods for Particle Transport: Applications to Reactor and Radiation Physics (Research Studies in Particle and Nuclear Technology)
Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology)
Polymers and Neutron Scattering (Oxford Series on Neutron Scattering in Condensed Matter)
Nuclear Prepared - How to Prepare for a Nuclear Attack and What to do Following a Nuclear Blast: Everything you Need to Know to Plan and Prepare for a Nuclear Attack
Nuclear energy. Radioactivity. Engineering in Nuclear Power Plants: Easy course for understanding nuclear energy and engineering in nuclear power plants (Radioactive Disintegration)
Hand Tool Essentials: Refine Your Power Tool Projects with Hand Tool Techniques (Popular Woodworking)
Neutron Physics for Nuclear Reactors: Unpublished Writings by Enrico Fermi
Nuclear and Particle Physics: An Introduction
Nuclear and Particle Physics (Cambridge Advanced Sciences)
Handbook of Nuclear Chemistry: Vol. 1: Basics of Nuclear Science; Vol. 2: Elements and Isotopes: Formation, Transformation, Distribution; Vol. 3: ...
Nuclear Energy Production and Safety Issues. Object Lessons for a Year: 52 Talks for the Children's Sermon Time (Object Lesson Series)
Statistical Methods for Data Analysis in Particle Physics (Lecture Notes in Physics)
Lie Algebras In Particle Physics: from Isospin To Unified Theories (Frontiers in Physics)
Particle Accelerator Physics (Graduate Texts in Physics)
From Special Relativity to Feynman Diagrams: A Course in Theoretical Particle Physics for Beginners (UNITEXT for Physics)
Gauge Theories in Particle Physics, Second Edition (Graduate Student Series in Physics)
Understanding Physics (Motion, Sound, and Heat / Light, Magnetism, and Electricity / The Electron, Proton, and Neutron)
Neutron Scattering in Layered Copper-Oxide Superconductors (Physics and Chemistry of Materials with Low-Dimensional Structures)
Nuclear Reaction Data and Nuclear Reactors: Physics, Design, and Safety

Contact Us

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)