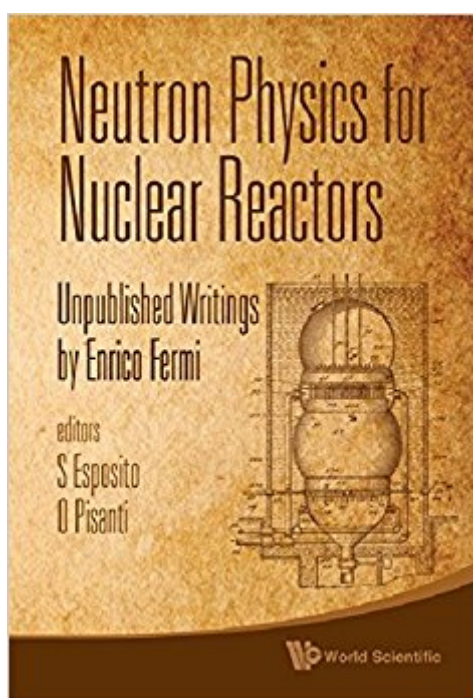


The book was found

Neutron Physics For Nuclear Reactors: Unpublished Writings By Enrico Fermi



Synopsis

This unique volume gives an accurate and very detailed description of the functioning and operation of basic nuclear reactors, as emerging from yet unpublished papers by Nobel Laureate Enrico Fermi. In the first part, the entire course of lectures on Neutron Physics delivered by Fermi at Los Alamos is reported, according to the version made by Anthony P French. Here, the fundamental physical phenomena are described very clearly and comprehensively, giving the appropriate physics grounds for the functioning of nuclear piles. In the second part, all the patents issued by Fermi (and coworkers) on the functioning, construction and operation of several different kinds of nuclear reactors are reported. Here, the main engineering problems are encountered and solved by employing simple and practical methods, which are described in detail. This seminal work mainly caters to students, teachers and researchers working in nuclear physics and engineering, but it is of invaluable interest to historians of physics too, since the material presented here is entirely novel.

Book Information

Hardcover: 704 pages

Publisher: World Scientific Publishing Company (June 4, 2010)

Language: English

ISBN-10: 9814291226

ISBN-13: 978-9814291224

Product Dimensions: 6 x 1.5 x 9 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars 1 customer review

Best Sellers Rank: #3,480,084 in Books (See Top 100 in Books) #15 in Books > Textbooks > Engineering > Nuclear Engineering #560 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear #2179 in Books > Science & Math > Physics > Nuclear Physics

Customer Reviews

The topics of the book are described in a readable, clear and comprehensive style. The contents of the book are interesting, novel and invaluable. The book discusses the topics related with low-energy nuclear physics and engineering; therefore, I recommend this text to students, teachers and researchers working in those areas. -- Contemporary Physics "Contemporary Physics"

This unique volume gives an accurate and very detailed description of the functioning and operation

of basic nuclear reactors, as emerging from yet unpublished papers by Nobel Laureate Enrico Fermi. In the first part, the entire course of lectures on Neutron Physics delivered by Fermi at Los Alamos is reported, according to the version made by Anthony P French. Here, the fundamental physical phenomena are described very clearly and comprehensively, giving the appropriate physics grounds for the functioning of nuclear piles. In the second part, all the patents issued by Fermi (and coworkers) on the functioning, construction and operation of several different kinds of nuclear reactors are reported. Here, the main engineering problems are encountered and solved by employing simple and practical methods, which are described in detail. This seminal work mainly caters to students, teachers and researchers working in nuclear physics and engineering, but it is of invaluable interest to historians of physics too, since the material presented here is entirely novel.

I bought this book to write a research paper about Fermi's first reactor for a 400-level physics class. The information was pretty useful, and I referenced it significantly. That being said, well over half of the book is just a reprinting of Fermi's patents, which are free from the U.S. Patent Office. The other half is composed of converted notes from one of Fermi's undergraduate students. These have some noticeable grammatical mistakes, but compared to the introduction they are models of proper English. The introduction just explains what the "authors" did to create the book, and is pretty much irrelevant, though it composes about 30 pages. Really, the important stuff takes up about 50 -70 pages out of 400 or so pages. I believe that it is worth only a quarter of what I paid, so use that to judge whether the price matches the value.

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

Neutron Physics for Nuclear Reactors: Unpublished Writings by Enrico Fermi
The Pope of Physics: Enrico Fermi and the Birth of the Atomic Age
Enrico Fermi: And the Revolutions of Modern Physics (Oxford Portraits in Science)
Nuclear Reaction Data and Nuclear Reactors: Physics, Design, and Safety
Atoms in the Family: My Life with Enrico Fermi
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 plans (Radioactive Disintegration)
The Neutron: A Tool and an Object in Nuclear and Particle Physics
Nuclear Fission Reactors: Potential Role and Risk of Converters and Breeders (Topics in energy)
Engineering Aspects of Thermonuclear Fusion Reactors (Ispra Courses on Nuclear Engineering and Technology Series)
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. What Are You Going to Do with Your Life?: Unpublished Writings and Diaries Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) 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) Bose, Spin and Fermi Systems: Problems and Solutions Chemical Reactions and Chemical Reactors Swan Sinks: SS Cygnet Sunk by Italian Submarine Enrico Tazzoli San Salvador Bahamas in World War II (U-Boats in the Bahamas Book 2) The Great Tenors: The Best Of...(Mario Del Monaco, Tito Schipa, Beniamino Gigli, Luciano Pavarotti, Jose Carreras, Placido Domingo, Enrico Caruso, Gino Bechi, Ferruccio Tagliavini, Franco Corelli, Guisepppe Di Stephano) [Sheet Music]

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)