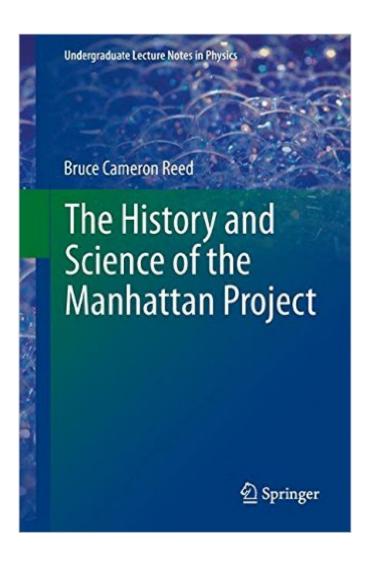
The book was found

The History And Science Of The Manhattan Project (Undergraduate Lecture Notes In Physics)





Synopsis

The development of atomic bombs under the auspices of the U. S. Armyâ TMs Manhattan Project during World War II is considered to be the outstanding news story of the twentieth century. In this book, a physicist and expert on the history of the Project presents a comprehensive overview of this momentous achievement. The first three chapters cover the history of nuclear physics from the discovery of radioactivity to the discovery of fission, and would be ideal for instructors of a sophomore-level â œModern Physicsâ • course. Student-level exercises at the ends of the chapters are accompanied by answers. Chapter 7 covers the physics of first-generation fission weapons at a similar level, again accompanied by exercises and answers. For the interested layman and for non-science students and instructors, the book includes extensive qualitative material on the history, organization, implementation, and results of the Manhattan Project and the Hiroshima and Nagasaki bombing missions. The reader also learns about the legacy of the Project as reflected in the current world stockpiles of nuclear weapons.Â

Book Information

Series: Undergraduate Lecture Notes in Physics

Hardcover: 472 pages

Publisher: Springer; 2014 edition (October 16, 2013)

Language: English

ISBN-10: 3642402968

ISBN-13: 978-3642402968

Product Dimensions: 6.1 x 1 x 9.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars Â See all reviews (6 customer reviews)

Best Sellers Rank: #1,020,912 in Books (See Top 100 in Books) #21 in Books > Science & Math

- > Chemistry > Nuclear Chemistry #132 in Books > Science & Math > Physics > Nuclear Physics
- > Atomic & Nuclear Physics #343 in Books > Science & Math > Chemistry > Industrial &

Technical

Customer Reviews

Just about anything you'd ever want to know about the Manhattan Project is in this book. The technical material is accessible to anyone with solid high-school / college pre-calculus level mathematics background. Reed has another book along similar lines except it has all of the heavy-duty math. Junior-year undergrad students should have enough advanced calculus and

differential equations to handle this material.

The genré of historical technology is of interest to many. And there are an abundance of books on the subject. About just about everything. Each book delves into its subject matter in different levels; some superficially, some in great depth. This book, The History and Science of the Manhattan Project, is one that goes â œall the way.â • It is relatively expensive, and esoteric. Every aspect of the Manhattan Project is described in great detail. This can present a problem for some readers as nearly every page contains extremely detailed equations relating to the subject matter. If the reader is a physicist or mathematician, no problem. However, for the less sophisticated of us it could be frustrating. This need not be a problem; it is not necessary to study and understand each equation. The equations support the text and it is a simple matter to understand the concepts presented in the text and move on. Well, youâ ™ve paid for the equations, so it is unfortunate to not take full advantage. But, if the history of the Manhattan Project is one of your passions and youâ ™ve read most of the other books on the subject, then this will be â œthe icing on the cake.â • If the subject is of interest, take the plunge and buy the #\$%^&* thing.

Best combined account of this ultimate mega-project. The only place I have seen decent descriptions of Hanford and Oak Ridge production facilities. A good supplemental work to this is "Critical Assembly" if you are interested in more scientific and technical detail. No question but that this project dwarfs all others I am aware of, including Apollo, for its breadth and speed of discover and adaptation.

Download to continue reading...

The History and Science of the Manhattan Project (Undergraduate Lecture Notes in Physics)

Physics from Symmetry (Undergraduate Lecture Notes in Physics) Inside Interesting Integrals: A

Collection of Sneaky Tricks, Sly Substitutions, and Numerous Other Stupendously Clever,

Awesomely Wicked, and ... (Undergraduate Lecture Notes in Physics) Electrodynamics: The

Field-Free Approach: Electrostatics, Magnetism, Induction, Relativity and Field Theory

(Undergraduate Lecture Notes in Physics) The Physics of the Manhattan Project Streetwise

Manhattan Bus Subway Map - Laminated Metro Map of Manhattan, New York - Pocket Size

(Streetwise Maps) Light Science: Physics and the Visual Arts (Undergraduate Texts in

Contemporary Physics) A Comprehensive Guide to Project Management Schedule and Cost

Control: Methods and Models for Managing the Project Lifecycle (FT Press Project Management)

Mortal Crimes: The Greatest Theft in History: The Soviet Penetration of the Manhattan Project

Colloids and the Depletion Interaction (Lecture Notes in Physics) Landau Theory Of Phase
Transitions, The: Application To Structural, Incommensurate, Magnetic And Liquid Crystal Systems
(World Scientific Lecture Notes in Physics) Quantum Thermodynamics: Emergence of
Thermodynamic Behavior Within Composite Quantum Systems (Lecture Notes in Physics)
Quantum Chromodynamics on the Lattice: An Introductory Presentation (Lecture Notes in Physics)
Progress in Understanding of Polymer Crystallization (Lecture Notes in Physics) Manhattan Project:
The Untold Story of the Making of the Atomic Bomb A Chemist in the White House: From the
Manhattan Project to the End of the Cold War The Solid State: An Introduction to the Physics of
Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series)
Hardware and Software: Verification and Testing: 11th International Haifa Verification Conference,
HVC 2015, Haifa, Israel, November 17-19, 2015, Proceedings (Lecture Notes in Computer Science)
Software Engineering for Large-Scale Multi-Agent Systems: Research Issues and Practical
Applications (Lecture Notes in Computer Science) Cryptography and Coding: 6th IMA International
Conference, Cirencester, UK, December 17-19, 1997, Proceedings (Lecture Notes in Computer
Science)

<u>Dmca</u>