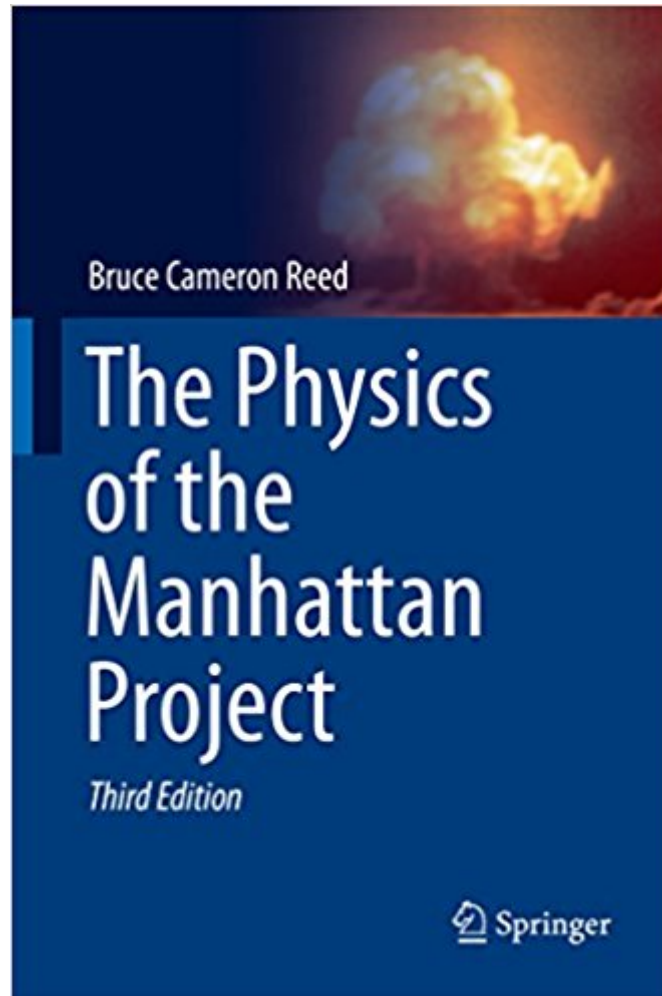




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The Physics Of The Manhattan Project



Synopsis

The development of nuclear weapons during the Manhattan Project is one of the most significant scientific events of the twentieth century. This revised and updated 3rd edition explores the challenges that faced the scientists and engineers of the Manhattan Project. It gives a clear introduction to fission weapons at the level of an upper-year undergraduate physics student by examining the details of nuclear reactions, their energy release, analytic and numerical models of the fission process, how critical masses can be estimated, how fissile materials are produced, and what factors complicate bomb design. An extensive list of references and a number of exercises for self-study are included. Links are given to several freely-available spread sheets which users can use to run many of the calculations for themselves.

Book Information

File Size: 2370 KB

Print Length: 222 pages

Publisher: Springer; 3 edition (August 20, 2014)

Publication Date: August 20, 2014

Sold by: Digital Services LLC

Language: English

ASIN: B00RZHX4K

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #891,701 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #35

in Books > Science & Math > Chemistry > Nuclear Chemistry #38 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Nuclear #75 in Kindle Store > Kindle eBooks > Nonfiction > Science > Chemistry > Industrial & Technical

Customer Reviews

Quite a concise explanation of science issues for constructing the atom bomb, and not needlessly technical. Its appendix fills in some terminology, like nuclear cross sections. I always wondered what exactly were the problems for the Manhattan Project team. This is a good book to own if you are watching the WGNA series, and are curious about the actual history.

A reasonably accurate summary of the physics involved. I found it interesting to read with Ken Ford's "Building the H Bomb" and with Serber's book.

very interesting and answered a few questions I've had since the 1960s

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