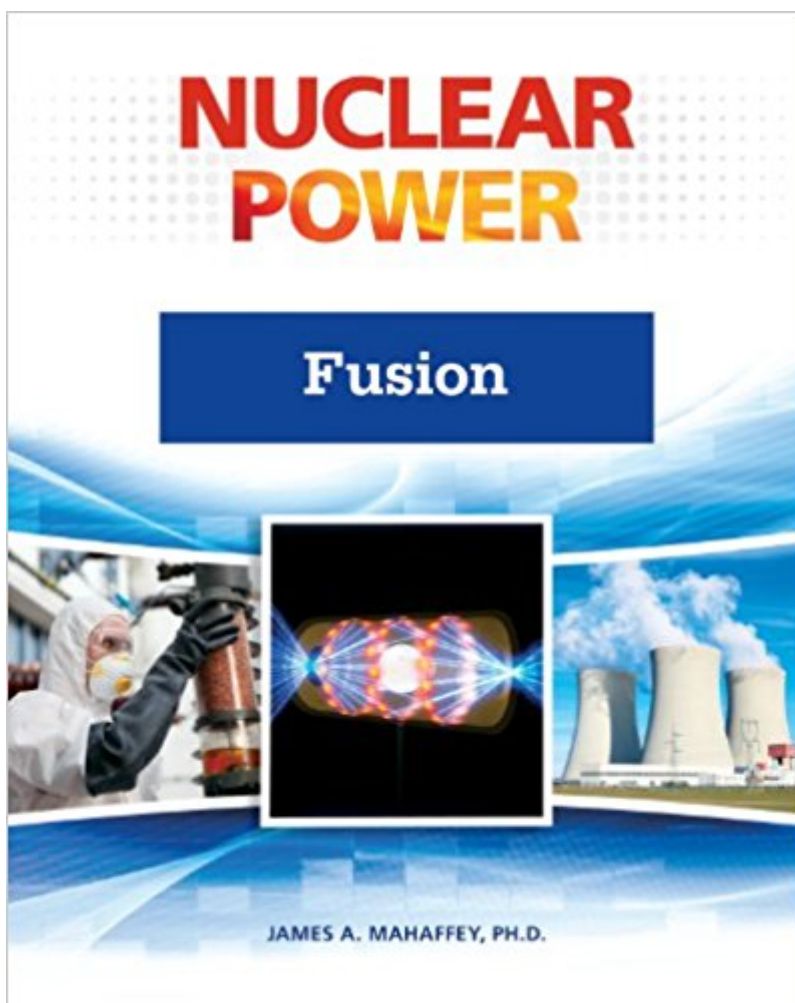


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Fusion (Nuclear Power) (Nuclear Power (Facts On File))



Synopsis

Billions of dollars have been spent and hundreds of reactors have been built, but not a watt of usable power has been produced by a controlled fusion device. Unlike fission systems, precise prediction of fusion system behavior by mathematical means has proven difficult. Still, the advantages of this ultimate source of limitless power are too great to abandon. As energy problems of the world grow, work toward fusion power continues at a greater pace than ever before. The topic of fusion is one that is often met with the most recognition and interest in the nuclear power arena. Written in clear and jargon-free prose, *Fusion* explores the big bang of creation to the blackout death of worn-out stars. A brief history of fusion research, beginning with the first tentative theories in the early 20th century, is also discussed, as well as the race for fusion power. This brand-new, full-color resource examines the various programs currently being funded or planned as well as the reality of fusion power and the magnitude of the challenge for future scientists and engineers.

Book Information

Series: Nuclear Power (Facts on File)

Hardcover: 208 pages

Publisher: Facts on File, Inc.; 1st edition (February 1, 2012)

Language: English

ISBN-10: 0816076537

ISBN-13: 978-0816076536

Product Dimensions: 7.3 x 0.6 x 9.3 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #1,122,709 in Books (See Top 100 in Books) #117 in [Books > Teens > Education & Reference > Science & Technology > Physics](#) #158 in [Books > Teens > Education & Reference > Science & Technology > Technology](#) #186 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear](#)

Customer Reviews

School Library Journal Gr 9 Up--This book does an excellent job of delivering complex information, including background on the theories, applications, devices, and future of fusion. Clear diagrams and color photos...sidebars highlight people and topics. The information is presented in a straightforward way, but due to the complex topic and the depth of the text, this volume will not appeal to casual readers. For high school students studying fusion, this work will fill a

void...--Elizabeth Kahn, Patrick F. Taylor Science & Technology Academy, Jefferson, LA School Library Journal Gr 9 Up-This informative series explores the history, science, and technology of nuclear power. Mahaffey also addresses public concerns about radiation and nuclear safety. The coverage is in-depth, detailed, and meticulously researched. These volumes make nuclear technology understandable by explaining how scientists discovered radiation and giving readers a tour of a typical nuclear reactor plant. Accessible and interesting. (c) Copyright 2011. Library Journals LLC, a wholly owned subsidiary of Media Source, Inc. No redistribution permitted.

James A. Mahaffey, Ph.D., has more than 25 years' experience as a senior research scientist at the Georgia Tech Research Institute, where he was engaged in a wide variety of projects, ranging from theoretical mathematics to nuclear science. At the Georgia Institute of Technology, he completed undergraduate and master's studies and earned a doctorate there in nuclear engineering. He was director of a long-term project to design and build the Emergency Response Data System at Georgia Power's Plant Hatch nuclear power station. He has also worked on projects for the Defense Nuclear Agency, the National Ground Intelligence Center, and the Air Force Air Logistics Center.

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