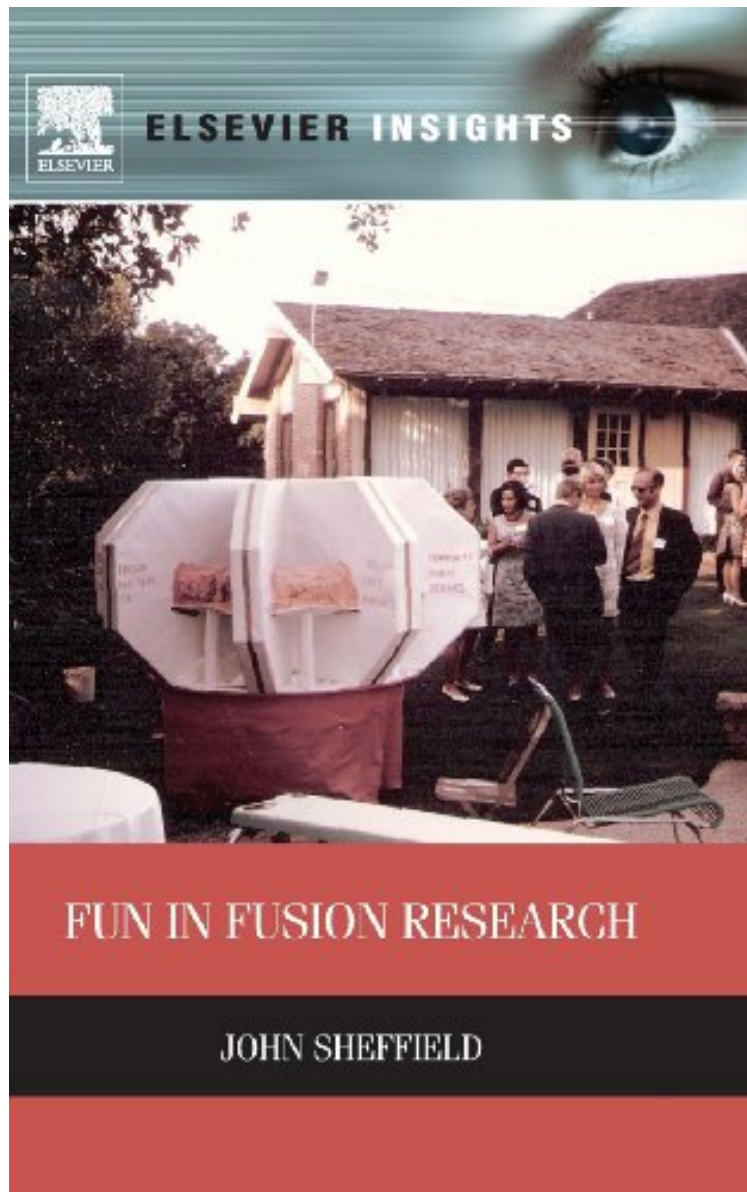


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Fun in Fusion Research (Elsevier Insights)

John Sheffield

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John Sheffield : Fun in Fusion Research (Elsevier Insights) before purchasing it in order to gauge whether or not it would be worth my time, and all praised Fun in Fusion Research (Elsevier Insights):

This book discusses the fun side of the quest to develop fusion energy? a modern equivalent of the hunt for the Holy

Grail. After more than 70 years of research, despite great progress, the goal has not been realized. Do you have to be crazy to love quests like this? Not really, but you do have to have an unshakeable optimism. Through humorous anecdotes, and accessible yet detailed scientific discussion, this book illuminates the enjoyment of scientific research through an account of fifty years working on fusion energy development. The anecdotes bring out the human side of research, in which innovative and sometimes egocentric scientists create both clever and nutty experiments. Among the many stories within are witchcraft at Harwell, shocking experiences, entertaining talks, and the wit of top scientists such as Marshall Rosenbluth. Above all the book highlights the significant advances made in developing practical fusion energy and the promise for an exciting future with the National Ignition Facility and International Thermonuclear Experimental Reactor. This book will be of interest to physicists as well as other students and researchers in the scientific and wider communities. Shows the exciting and fun aspects of science research Author has spent 54 years working in the area, offering key insights on the history of fusion Clear, detailed explanations of fusion energy are supplied, helping non-science readers understand the area

"The book is, in a sense, a short history of the quest for fusion, mainly through magnetic confinement, and the various stories paint an interesting picture of some of the characters in the field...It conveys a strong message that fusion is well worth the effort, even though it is likely to be decades before energy is delivered to the Grid."--CERN Courier, April 30, 2014 "This book has many interesting stories to complement both the history of the world fusion program and John Sheffield's part in it. I recommend it to all those who are interested in the history of the fusion effort and who also wish to see that "all work and no play" would have made John a dull boy."--Fusion Science and Technology, November 2013 "He has participated in and made contributions to both the theoretical and experimental aspects of plasma science and fusion research. But most important (for this book), he has clearly had a keen eye, and an acute memory, for the very human and "fun" side of such serious work."--21st Century Science Technology, Fall-Winter 2013 "Sheffield shares stories from his research work at the Atomic Energy Research Establishment in Harwell, the University of Texas, the Joint European Torus, and Oak Ridge National Laboratory, and recalls humorous exchanges unleashed during fusion energy conferences. The comedy enlivens the normally dry science of fusing light elements to generate energy and shows that even plasma physicists can have a little fun."--Reference Research Book News, October 2013 "Fusion veteran John Sheffield has written an entertaining account of the 'fun' times he has had traveling around the world doing research, giving talks, and cavorting with other scientists equally dedicated to the pursuit of the "ultimate" energy source...The book has many interesting stories to complement both the history of the world fusion program and John's part in it."--Fusion Power Report newsletter, May 16, 2013 "There is enough detail explaining fusion, and describing the history and variety of experiments over the last half century, to inform the new reader. But the enjoyment of Sheffield's book is immediately obvious." -- 21st Century Science Technology, Fall-Winter 2013 About the Author John Sheffield PhD is known worldwide because of his involvement in numerous multi-national fusion energy projects for the U.S. and Europe. In the 1970s, he was on the design team for the 16-nation, Joint European Torus project at Culham in England; in the 1990s, he served as a U.S. representative on committees that defined and then gave technical advice to the International Thermonuclear Experimental Reactor (ITER)-China, Europe, India, Japan, Korea, Russia, and the United States. He served on the US-DOE's Fusion Energy Sciences Advisory Committee for over a decade, chairing it from 1996 to 2000. From 1988 to 1994, he was director of Fusion Energy at the Oak Ridge National Laboratory. From 1995 to 2003, he was director for Energy Technology Programs at ORNL, and from 1997 also director of the Joint Institute for Energy and Environment at the University of Tennessee. There he remains as a Senior Fellow in what is now called the Institute for a Secure and Sustainable Environment.