

International Thermonuclear Experimental Reactor

Frank Rusco

Star Power Alain Bécoulet, 2023-09-19 A concise and accessible explanation of the science and technology behind the domestication of nuclear fusion energy. Nuclear fusion research tells us that the Sun uses one gram of hydrogen to make as much energy as can be obtained by burning eight tons of petroleum. If nuclear fusion—the process that makes the stars shine—could be domesticated for commercial energy production, the world would gain an inexhaustible source of energy that neither depletes natural resources nor produces greenhouse gases. In *Star Power*, Alan Bécoulet offers a concise and accessible primer on fusion energy, explaining the science and technology of nuclear fusion and describing the massive international scientific effort to achieve commercially viable fusion energy. Bécoulet draws on his work as Head of Engineering at ITER (International Thermonuclear Experimental Reactor) to explain how scientists are trying to “put the sun in a box.” He surveys the history of nuclear power, beginning with post-World War II efforts to use atoms for peaceful purposes and describes how energy is derived from fusion, explaining that the essential principle of fusion is based on the capacity of nucleons (protons and neutrons) to assemble and form structures (atomic nuclei) in spite of electrical repulsion between protons, which all have a positive charge. He traces the evolution of fusion research and development, mapping the generation of electric current through fusion. The ITER project marks a giant step in the development of fusion energy, with the potential to demonstrate the feasibility of a nuclear fusion reactor. *Star Power* offers an introduction to what may be the future of energy production.

International Thermonuclear Experimental Reactor : ITER concept definition , 1989

Interim Report of the Committee on a Strategic Plan for U.S. Burning Plasma Research National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategic Plan for U.S. Burning Plasma Research, 2018-03-19

In January 2003, President George W. Bush announced that the United States would begin negotiations to join the ITER project and noted that if successful, ITER would create the first fusion device capable of producing thermal energy comparable to the output of a power plant, making commercially viable fusion power available as soon as 2050. The United States and the other ITER members are now constructing ITER with the aim to demonstrate that magnetically confined plasmas can produce more fusion power than the power needed to sustain the plasma. This is a critical step towards producing and delivering electricity from fusion energy. Since the international establishment of the ITER project, ITER's construction schedule has slipped and ITER's costs have increased significantly, leading to questions about whether the United States should continue its commitment to participate in ITER. This study will advise how to best advance the fusion energy sciences in the United States given developments in the field, the specific international investments in fusion science and technology, and the priorities for the next ten years developed by the community and the Office of Fusion Energy Sciences (FES) that were recently reported to Congress. It will address the scientific justification and needs for strengthening the foundations for realizing fusion energy given a potential choice of U.S. participation or not in the ITER project, and develops future scenarios in either case. This interim report assesses the current status of U.S. fusion research and of the importance of burning plasma research to the

development of fusion energy as well as to plasma science and other science and engineering disciplines. The final report will present strategies that incorporate continued progress toward a burning plasma experiment and a focus on innovation.

ITER: The Giant Fusion Reactor Michel

Claessens, 2019-10-17 This book provides for the first time an insider's view into ITER, the biggest fusion reactor in the world, which is currently being constructed in southern France. Aimed at bringing the "energy of the stars" to earth, ITER is funded by the major economic powers (China, the EU, India, Japan, Korea, Russia and the US). Often presented as a "nuclear but green" energy source, fusion could play an important role in the future electricity supply. But as delays accumulate and budgets continue to grow, ITER is currently a star partially obscured by clouds. Will ITER save humanity by providing a clean, safe and limitless source of energy, or is it merely a political showcase of cutting-edge technology? Is ITER merely an ambitious research project and partly a PR initiative driven by some politically connected scientists? In any case, ITER has already helped spur on rival projects in the US, Canada and the UK. This book offers readers a behind-the-scenes look at this controversial project, which France snatched from Japan, and introduces them to a world of superlatives: with the largest magnets in the world, the biggest cryogenic plant and tremendous computing power, ITER is one of the most fascinating, and most international, scientific and technological endeavours of our time.

International Fusion Energy Act of 1993 United States. Congress. Senate. Committee on Energy and Natural Resources, 1993 Distributed to some depository libraries in microfiche.

Fundamentals of Magnetic Thermonuclear

Reactor Design Vasilij A. Glukhikh, Oleg Gennadievich Filatov, Boris Nikolaevich Kolbasov, 2018-05-21

Fundamentals of Magnetic Thermonuclear Reactor Design is a comprehensive resource on fusion technology and energy systems written by renowned scientists and engineers from the Russian nuclear industry. It brings together a wealth of invaluable experience and knowledge on controlled thermonuclear fusion (CTF) facilities with magnetic plasma confinement – from the first semi-commercial tokamak T-3, to the multi-billion international experimental thermonuclear reactor ITER, now in construction in France. As the INTOR and ITER projects have made an immense contribution in the past few decades, this book focuses on its practical engineering aspects and the basics of technical physics and electrical engineering. Users will gain an understanding of the key ratios between plasma and technical parameters, design streamlining algorithms and engineering solutions. Written by a team of qualified experts who have been involved in the design of thermonuclear reactors for over 50 years Outlines the most important features of the ITER project in France which is building the largest tokamak, including the design, material selection, safety and economic considerations Includes data on how to design magnetic fusion reactors using CAD tools, along with relevant regulatory documents

The Quest for a Fusion Energy Reactor Weston Stacey, 2010-04-26 At the Geneva Superpower Summit in November 1985, Secretary of the former Soviet Union Mikhail Gorbachev and US President Ronald Regan agreed to pursue an international effort to develop fusion energy for peaceful purposes. At a time when tension between these cold war nations was very high, how were these leaders able to come together to work towards making nuclear fusion a feasible energy source? The Quest for a

Fusion Energy Reactor is the story of the INTOR Workshop (INternational TOKamak Reactor) which brought together scientists and engineers from Europe, Japan, the United States, and the (then) USSR from 1978 to 1988 to share their individual research and work cooperatively on the design and development possibilities for harnessing nuclear energy. Drawing on his insights while serving as Vice Chairman of the INTOR Workshop, Weston Stacey offers an insider's account of both the participants' technical work and their fascinating political interactions under the blanket of the cold war. An accessible presentation of their research on the viability of designing, constructing, and operating a Tokamak experimental power reactor is combined with personal anecdotes of the obstacles Workshop leaders and participants faced as they strove to make progress on the global future of nuclear fusion technology while balancing their own countries' priorities. The Workshop led to the International Thermonuclear Experimental Reactor (ITER), construction of which began in 2009 with the goal of demonstrating the scientific and technical feasibility of fusion power.

Fusion Policy United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Energy, 1995 Distributed to some depository libraries in microfiche.

Economic Impacts on the United States of Siting Decisions for the International Experimental Reactor, 1996

Diagnostics for Experimental Thermonuclear Fusion Reactors 2 Peter E. Stott, Giuseppe Gorini, Paolo Prandoni, 2012-12-06 This book of proceedings collects the papers presented at the workshop on Diagnostics for Experimental Fusion Reactors held at Villa Monastero, Varenna (Italy) September 4-12, 1997. This workshop was

the seventh organized by the International School of Plasma Physics Piero Caldirola on the topic of plasma diagnostics and the second devoted to the diagnostic studies for the International Thermonuclear Experimental Reactor (ITER). The proceedings of the first workshop on ITER diagnostics were published by Plenum Press in 1996 with the title *Diagnostics for Experimental Thermonuclear Fusion Reactors*. While many of the ideas and studies reported in the first workshop remain valid, there has been substantial progress in the design and specification of many diagnostics for ITER. This motivated a second workshop on this topic and the publication of a new book of proceedings. ITER is a joint venture between Europe, Japan, Russia and USA in the field of controlled thermonuclear fusion research. The present aim of ITER is to design an experimental fusion reactor that can demonstrate ignition and sustained burn in a magnetically confined plasma. To achieve this goal, a wide range of plasma parameters will have to be measured reliably. It is also anticipated that diagnostics will be used much more extensively as input to control systems on ITER than on present fusion devices and this will require increased reliability and long-term stability.

Fusion United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Energy, 2014

Fusion Energy Frank Rusco, 2014-07-09 The International Thermonuclear Experimental Reactor (ITER) is an international research facility being built in France to demonstrate the feasibility of fusion energy. Fusion occurs when the nuclei of two light atoms collide and fuse together at high temperatures, which results in the release of large amounts of energy. The U.S. has committed to providing about 9% of ITER's construction costs, and the Dept. of Energy (DOE) is responsible for managing those

contributions, as well as the overall U.S. fusion program. In FY 2014, the U.S. ITER Project received \$199.5 million, or about 40% of the overall U.S. fusion program budget. This report examines (1) how and why the estimated costs and schedule of the U.S. ITER Project have changed since 2006; (2) the reliability of DOE's current cost and schedule estimates; and (3) actions DOE has taken to reduce U.S. ITER Project costs and plan for their impact on the overall U.S. fusion program. Tables and figures. This is a print on demand report.

Burning Plasma National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Plasma Science Committee, Burning Plasma Assessment Committee, 2004-04-01 Significant advances have been made in fusion science, and a point has been reached when we need to decide if the United States is ready to begin a burning plasma experiment. A burning plasma—in which at least 50 percent of the energy to drive the fusion reaction is generated internally—is an essential step to reach the goal of fusion power generation. The Burning Plasma Assessment Committee was formed to provide advice on this decision. The committee concluded that there is high confidence in the readiness to proceed with the burning plasma step. The International Thermonuclear Experimental Reactor (ITER), with the United States as a significant partner, was the best choice. Once a commitment to ITER is made, fulfilling it should become the highest priority of the U.S. fusion research program. A funding trajectory is required that both captures the benefits of joining ITER and retains a strong scientific focus on the long-range goals of the program. Addition of the ITER project will require that the content, scope, and level of U.S. fusion activity be defined by program balancing through a priority-setting process initiated by the Office of

Fusion Energy Science.

Diagnostics Development on the Route Towards Fusion Reactors Didier Mazon, 2020-01-31 Thermonuclear fusion could offer a feasible and sustainable solution to future energy production needs. In this book, internationally prominent experts present lectures on their experiences with fusion reactors, sharing comprehensive information on diagnostic methods and how to interpret the results obtained with different methods. The lecturers focus on diagnostic developments for a tokamak demonstration fusion reactor (DEMO) and for the International Thermonuclear Experimental Reactor (ITER), which will face unprecedented challenges: as it uses tritium to fuel the reaction, it also produces extremely high temperatures, high-energy neutron flux and intense gamma radiation. The lectures cover a diverse range of topics, including magnetic fusion confinement (tokamak, stellarators), Inertial Confinement Fusion lasers, and plasma physics, with a particular focus on measurement applications and associated physics in connection with ITER and DEMO. They describe current developments in theory and experiments, while also discussing the fundamentals of this fusion reactor technology field. As such, the lectures offer a valuable resource for all students and researchers who are new to the field.

Fusion Energy United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Energy, 1993

Fusion Garry McCracken, Peter Stott, 2013 Offers scientists and researchers the scientific basics, up-to-date current research, technical developments, and practical applications needed in fusion energy research/--pub. desc.

The Fairy Tale of Nuclear Fusion L. J. Reinders, 2021-05-20 This carefully researched book

presents facts and arguments showing, beyond a doubt, that nuclear fusion power will not be technically feasible in time to satisfy the world's urgent need for climate-neutral energy. The author describes the 70-year history of nuclear fusion; the vain attempts to construct an energy-generating nuclear fusion power reactor, and shows that even in the most optimistic scenario nuclear fusion, in spite of the claims of its proponents, will not be able to make a sizable contribution to the energy mix in this century, whatever the outcome of ITER. This implies that fusion power will not be a factor in combating climate change, and that the race to save the climate with carbon-free energy will have been won or lost long before the first nuclear fusion power station comes on line. Aimed at the general public as well as those whose decisions directly affect energy policy, this book will be a valuable resource for informing future debates.

Fun in Fusion Research John Sheffield, 2013-02-20

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

International Thermonuclear Experimental Reactor J. D. Blevins, 1989 Zircaloy-4 fuel sheath specimens 15.2 mm diameter by 0.42 mm wall thickness with beryllium-brazed appendages have been laboratory tested at high temperature with internal gas pressurization and inert gas shielding of the outer surfaces. with sufficient hoop stress at temperatures less than 1073 K cracks, which were due to a beryllium assisted crack penetration mechanism, were found to occur at the appendages. formulae to predict the beryllium penetration and rupture have been derived by Westinghouse Canada Ltd. based on data from direct resistance-heated specimens. the formulae are thought to be able to predict the phenomenon in fuel sheaths with changing temperature/pressure histories. a series of tests was done by Canadian General Electric to determine the formulae ability to predict the occurrence of beryllium assisted crack penetration in specimens heated indirectly with internal heaters. the tests showed: 1) there is an incubation period before any beryllium assisted crack penetration occurs. 2) at sheath temperatures below approximately equal to 1073 K sheath rupture by excessive mechanical strain will preclude rupture by beryllium assisted crack penetration. 3) the formulae predicted rupture times above and below the braze alloy melting temperature within the previously determined confidence

limits. 4) predictions of beryllium assisted crack penetration rupture for specimens with changing temperature/pressure histories were of similar accuracy to predictions of isothermal tests. 5) specimens with an appendage plane of one bearing pad and three spacer pads behaved similarly to the specimens with four spacer pads on which the formulae were based.

Fusion Research United States Accounting Office (GAO),2018-06-10 Fusion Research: Costs of Ending DOE's Participation in the International Thermonuclear Experimental Reactor Project Appear Reasonable

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