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The Physics of Nuclear Reactors Serge Marguet, 2018-02-26 This comprehensive volume offers readers a progressive and highly detailed introduction to the complex behavior of neutrons in general and in the context of nuclear power generation A compendium and handbook for nuclear engineers a source of teaching material for academic lecturers as well as a graduate text for advanced students and other non experts wishing to enter this field it is based on the author's teaching and research experience and his recognized expertise in nuclear safety After recapping a number of points in nuclear physics placing the theoretical notions in their historical context the book successively reveals the latest quantitative theories concerning The

slowing down of neutrons in matter The charged particles and electromagnetic rays The calculation scheme especially the simplification hypothesis The concept of criticality based on chain reactions The theory of homogeneous and heterogeneous reactors The problem of self shielding The theory of the nuclear reflector a subject largely ignored in literature The computational methods in transport and diffusion theories Complemented by more than 400 bibliographical references some of which are commented and annotated and augmented by an appendix on the history of reactor physics at EDF Electricit De France this book is the most comprehensive and up to date introduction to and reference resource in neutronics and reactor theory *Nuclear Science Abstracts* ,1976-06 *Nuclear Energy ebook Collection* Gianni Petrangeli,Raymond L. Murray,Colin Bayliss,Galen J. Suppes,Elmer E. Lewis,Hideo Kozima,2008-09-05 Nuclear Energy ebook Collection contains 6 of our best selling titles providing the ultimate reference for every nuclear energy engineer s library Get access to over 3500 pages of reference material at a fraction of the price of the hard copy books This CD contains the complete ebooks of the following 6 titles Petrangeli Nuclear Safety 9780750667234 Murray Nuclear Energy 9780750671361 Bayliss Nuclear Decommissioning 9780750677448 Suppes Sustainable Nuclear Power 9780123706027 Lewis Fundamentals of Nuclear Reactor Physics 9780123706317 Kozima The Science of the Cold Fusion Phenomenon 9780080451107 Six fully searchable titles on one CD providing instant access to the ULTIMATE library of engineering materials for nuclear energy professionals 3500 pages of practical and theoretical nuclear energy information in one portable package Incredible value at a fraction of the cost of the print books *Spectral Theory of Differential Operators* I.W. Knowles,R.T. Lewis,1981-01-01 Spectral Theory of Differential Operators **Handbook of Nuclear Engineering** D. G. Cacuci,2010-09-14 This is an authoritative compilation of information regarding methods and data used in all phases of nuclear engineering Addressing nuclear engineers and scientists at all levels this book provides a condensed reference on nuclear engineering since 1958 *Bulletin of the Atomic Scientists* ,1971-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Dissertation Abstracts International* ,1989 **Scientific and Technical Aerospace Reports** ,1994 *Bulletin of the Atomic Scientists* ,1958-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *The Publishers' Trade List Annual* ,1972 *INIS Atomindeks* ,1988 *Bulletin of the Atomic Scientists* ,1959-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Energy Research Abstracts** ,1979 **Applied Mechanics Reviews** ,1988 **International Aerospace Abstracts** ,1999 *Van Nostrand's Scientific Encyclopedia* Douglas M. Considine,Glenn D. Considine,2013-12-11 Advancements in science and

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