

Nuclear Reactor Physics Cern

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publisher description

this book covers introductory subjects including fundamental principles of nuclear reactions with neutrons fundamentals of nuclear fission chain reactions basic concepts of criticality and static characteristics based on diffusion approximation in neutron transport the chapters address topics

ranging from neutron moderation from fission to thermal energy ranges and heterogeneity effects in neutronics readers will find elementary and qualitative descriptions and also mathematical expressions including approximations derivations and analytical solutions for an understanding of the basic principles of nuclear reactor physics this book is part of a series entitled an advanced course in nuclear engineering and provides an accessible introduction to the core discipline of nuclear engineering nuclear reactor physics it will therefore appeal to engineers in nuclear engineering as well as to university students and others seeking to learn entry level reactor physics

the contributions from leading scientists of the day collected in this relatively slim book document cern s 60 year voyage of innovation and discovery the repercussions of which vindicate the vision of those who drove the foundation of the laboratory european in constitution but global in impact the spirit of inclusive collaboration which was a key element of the original vision for the laboratory together with the aim of technical innovation and scientific excellence are reflected in each of the articles in this unique volume cern courier big science and advanced technology are known to cross fertilize this book emphasizes the interplay between particle physics and technology at cern that has led to breakthroughs in both research and technology over the laboratory s first 60 years the innovations often the work of individuals or by small teams are illustrated with highlights describing selected technologies from the domains of accelerators and detectors the book also presents the framework and conditions prevailing at cern that enabled spectacular advances in technology and contributed to propel the european organization into the league of leading research laboratories in the world while the book is specifically aimed at providing information for the technically interested general public more expert readers may also appreciate the broad variety of subjects presented ample references are given for those who wish to further explore a given topic

semiannual with semiannual and annual indexes references to all scientific and technical literature coming from doe its laboratories energy centers and contractors includes all works deriving from doe other related government sponsored information and foreign nonnuclear information arranged under 39 categories e g biomedical sciences basic studies biomedical sciences applied studies health and safety and fusion energy entry gives bibliographical information and abstract corporate author subject report number indexes

the first edition of engines of discovery celebrated in words images and anecdotes the accelerators and their constructors that culminated in the discovery of the higgs boson but even before the

higgs was discovered before the champagne corks popped and while the television producers brushed up their quantum mechanics a new wave of enthusiasm for accelerators to be applied for more practical purposes was gaining momentum almost all fields of human endeavour will be enhanced by this trend energy conservation medical diagnostics and treatment national security as well as industrial processing accelerators have been used most spectacularly to reveal the structure of the complex molecules that determine our metabolism and life for every accelerator chasing the higgs there are now ten thousand serving other purposes it is high time to move from abstract mathematics and philosophy to the practical needs of humankind it is the aim of this revised and expanded edition to describe this revolution in a manner which will attract the young not only to apply their curiosity to the building blocks of matter but to help them contribute to the improvement of the quality of life itself on this planet as always the authors have tried to avoid lengthy mathematical description in describing a field which reaches out to almost all of today's cutting edge technology some detailed explanation cannot be avoided but this has been confined to sidebars references guide experts to move on to the journal reviews of accelerator science and technology and other publications for more information but first we would urge every young physicist teacher journalist and politician to read this book contents electrostatic accelerators cyclotrons linear accelerators betatrons synchrotrons colliders neutrino super beams neutrino factories and muon colliders detectors high energy and nuclear physics synchrotron radiation sources isotope production and cancer therapy accelerators spallation neutron sources accelerators in industry and elsewhere national security energy and the environment a final word oco mainly to the young readership scientists research physicists engineers and administrators at accelerator laboratories general readers undergraduates and graduates in physics electrical engineering and the history of science

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