

K. WIRTZ · K. H. BECKURTS

ELEMENTARE NEUTRONENPHYSIK

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Elementare Neutronenphysik

J. J. Broerse



Elementare Neutronenphysik:

Elementare Neutronenphysik Karl Wirtz, Karl H. Beckurts, 2013-07-02 Dieses Buch ist aus einer Vorlesung entstanden die ich seit dem Jahre 1951 gelegentlich an der Universität Göttingen gehalten habe Sie sollte die Studierenden der Experimentalphysik in die Arbeit eines neutronenphysikalischen Laboratoriums einführen das sich mit der Messung von Neutronenfluß Diffusionslänge Fermi Alter effektiver Neutronentemperatur Absorptionsquerschnitten und ähnlichen Problemen befaßt Die Vorlesung sollte außerdem auf eine anschließende Arbeit über die Physik der Kernreaktoren vorbereiten Der ursprüngliche Charakter der Vorlesung wird in dem Buche beibehalten Es wendet sich an Studierende sowie an alle die sich mit neutronenphysikalischen Untersuchungen befassen wollen In der ersten Hälfte wird vorwiegend die Theorie der Neutronenfelder die im wesentlichen die Diffusions und Bremstheorie behandelt In der zweiten Hälfte handelt es sich vor allem um Messungen in Neutronenfeldern Der Anhang enthält Angaben und Daten die nach unserer Erfahrung im Neutronenlabor häufig gebraucht werden Auf die eigentliche Kernphysik wird in den ersten beiden Kapiteln kurz eingegangen aber nur so weit wie es für das Verständnis der folgenden Abschnitte notwendig ist Die zahlreichen Anwendungen von Neutronenstrahlung werden nicht berührt In Fragen der Terminologie und der Bezeichnungsweise haben wir uns eng an die englisch amerikanische Literatur angelehnt Das einschlägige Schrifttum wurde bis zum Ende des Jahres 1957 berücksichtigt Es ist jeweils am Ende des betreffenden Kapitels zusammengestellt und nach Möglichkeit in Allgemeine Literatur und Spezielle Arbeiten unterteilt Viele Arbeiten sind als Veröffentlichungen der amerikanischen und anderer ausländischer Atomenergieforschenden erschienen und werden mit ihren bekannten Abkürzungen z B AECD zitiert *Proceedings of the Brookhaven Conference on Neutron Thermalization: Experimental aspects of transient and asymptotic phenomena* Brookhaven National Laboratory, 1962 **Riso Report**, 1959 *Physics of Nuclei and Particles* Pierre Marmier, Eric Sheldon, 2013-10-22 *Physics of Nuclei and Particles Volume II* explores the prevalent descriptive methods used in nuclear and particle physics with emphasis on the phenomenological and model based aspects The interactions of nuclear particles are discussed along with nuclear forces and potentials and scattering and reaction models employed in nuclear physics The nuclear structure and models of the nucleus are also considered Comprised of four chapters this volume begins with a review of the characteristics of nucleons and other particles that play a role in nuclear interaction processes in order to gain further insight into the underlying physical problems Neutron physics antinucleons deuteron physics and two body nuclear forces are highlighted together with three and four nucleon systems and heavy ion physics The next three chapters deal with nuclear forces and potentials as deduced from nuclear dynamics scattering and polarization scattering and reaction models used in nuclear physics and nuclear models such as the shell model models of deformed nuclei and many body self consistent models The book concludes with an analysis of the Brueckner Bethe Goldstone theory of nuclear matter This book will be of interest to physicists **Neutron Physics** Karl-Heinrich Beckurts, Karl Wirtz, 2013-06-29 This book is based upon a series of

lectures I have occasionally given at the University of Gottingen since 1951 They were meant to introduce the students of experimental physics to the work in a neutron physics laboratory dealing with the problem of measuring neutron flux diffusion length Fermi age effective neutron temperature absorption cross sections and similar problems Moreover these lectures were intended to prepare the students for a subsequent lecture covering the physics of nuclear reactors The original character of this series of lectures has been retained in the book It is intended for use by students as well as anyone desiring to work on neutron physics measurements The first half mainly covers the theory of neutron fields i e essentially diffusion and slowing down theory The second half is largely concerned with measurements in neutron fields The appendix contains information and data which in our experience are frequently required in a neutron laboratory The field of nuclear physics proper is briefly touched upon in the first two chapters but only to the extent necessary for the understanding of the following chapters The multitude of applications of neutron radiation has not been covered The conclusion of this manuscript coincided with the end of my long period of activity with the Max Planck Institut fur Physik at Gottingen To Professor HEISENBERG I owe thanks for his advice and suggestions for many of the subjects treated here

Symposium Of North Eastern Accelerator Personnel, Sneap 31 F Dworschak, R Holzle, 1999-09-20 Electrostatic particle accelerators are used in a number of fields such as nuclear physics atomic physics materials science accelerator mass spectrometry environmental science and even art The annual SNEAP meetings act as an efficient medium for exchanging experiences in the operation of electrostatic particle accelerators The proceedings with submitted manuscripts transcribed discussion sessions and technical laboratory status reports are a valuable source of practical knowledge for all accelerator staff In the 31st Symposium of Northeastern Accelerator Personnel 76 delegates from 19 countries representing 47 laboratories and companies Fourteen papers dealt both with the operating status and new developments at low energy linear accelerator laboratories in Australia France Germany Hungary India Russia and the United States Additionally laboratories from Austria Germany and Sweden introduced the function of their accelerators in high quality accelerator mass spectrometry and four laboratories from Germany Japan and the United States demonstrated interesting applications of electrostatic particle accelerators Finally seventeen laboratories presented their annual reports

Chemical Technology F. A. Henglein, 2013-09-11 Chemical Technology is based on lectures the author gave at the Technische Hochschule of Karlsruhe and at the University of Freiburg Part 1 of this book deals with chemical technology and describes subjects dealing with apparatus unit operations and chemical economics The text reviews industrial chemical reactions raw materials preparation for reaction thermal and catalytic processes and a history of chemical technology This part also addresses transportation storage of raw materials and the design and construction of a chemical factory Part 2 concerns special chemical technology including topics such as raw material upgrading processing of products in the chemical industry and unit processes application toward consumer goods production This part reviews materials sourcing from animals minerals and vegetables such as processing of products from

living organisms the recovery of sugar starch and other carbohydrates The book also reviews products of the chemical industry including low molecular weight consumer goods detergents aromas explosives plastics elastomers synthetic leather textile and some building materials Chemistry students chemical and process technology students and mechanical engineering students with interest in chemistry will find this book valuable **Reactor Physics Constants** Reactor Physics Constants Center (U.S.),1963 **Nuclear Science Abstracts** ,1972 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1959 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Kerntechnik** ,1959-07 *National Union Catalog* ,1956 Includes entries for maps and atlases
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Nuclear Physics, an Introduction Haro von Buttlar,1968 **Who's who in Atoms** ,1965 List of References on Nuclear Energy International Atomic Energy Agency,1965 *Effects of Energy Dissipation by Monoenergetic Neutrons in Mammalian Cells and Tissues* J. J. Broerse,1966

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