

RADIOACTIVE INDICATORS

Radioactive Indicators Their Application

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Radioactive Indicators Their Application:

The Technical Applications of Radioactivity Engelbert Broda, Thomas Schönfeld, 2013-10-22 The Technical Applications of Radioactivity Volume 1 reviews the technical applications of radioactivity with emphasis on the potentialities of nuclear physics and nuclear chemistry for the peaceful development of industrial productivity Topics covered range from measurement of radioactivity to the production and chemistry of radio elements as well as the application of radioactivity in chemical analysis and in the mining metallurgical electrical and engineering industries Comprised of 13 chapters this volume first deals with the fundamentals of modern atomic theory followed by an introduction to the basic facts of radioactivity the methods used for measuring it and chemical operations with radioactive substances Subsequent chapters focus on the use of radioactivity in chemical analysis hydrology and water supply and in industries such as mining and oil production engineering and chemical sectors along with forestry and agriculture The final chapter looks at precautions in the use of radioactive materials to protect research workers physicians and other personnel against the harmful effects of ionizing radiation This book is written for scientists and scientific or technical workers *Applications of Nuclear and Radiochemistry* Richard M. Lambrecht, Nabil Morcos, 2013-10-22 Applications of Nuclear and Radiochemistry is a collection of articles focusing on contemporary applied research on radioactive isotopes The monograph is based on the Second Chemical Congress of the North American Continent held at Las Vegas Nevada in August 1980 The book contains articles on developments in nuclear chemistry and radiochemistry emphasizing the topic of radiopharmaceutical chemistry The text is composed of two parts wherein the first part is comprised of papers dealing with advances in the production of radionuclides for nuclear medicine in the synthesis of labeled pharmaceuticals and in the design and use of specific diagnostic agents These sections cover research areas on machines used for research such as compact accelerators positron emission and single photon tomographs Emphasis is given to the radiochemistry and design of radiopharmaceuticals for receptor studies and for determining physiological function and metabolism of the brain heart and tumors The second part examines contemporary advances including the impact of radiochemistry in China pertaining to the fallout from Chinese nuclear tests This part also contains a section covering a list of uncommon topics The text is of interest to nuclear scientists academicians in the field of radiology and radiochemistry researchers in nuclear medicine nuclear engineers and environmental researchers *Radioactive Indicators* Georg von Hevesy, 1944 *Nuclear Science Abstracts*, 1973 *Handbook of Nuclear Medicine and Molecular Imaging for Physicists* Michael Ljungberg, 2022-01-24 This state of the art handbook the first in a series that provides medical physicists with a comprehensive overview into the field of nuclear medicine is dedicated to instrumentation and imaging procedures in nuclear medicine It provides a thorough treatment on the cutting edge technologies being used within the field in addition to touching upon the history of their use their development and looking ahead to future prospects This text will be an invaluable resource for libraries institutions and clinical and academic

medical physicists searching for a complete account of what defines nuclear medicine The most comprehensive reference available providing a state of the art overview of the field of nuclear medicine Edited by a leader in the field with contributions from a team of experienced medical physicists Includes the latest practical research in the field in addition to explaining fundamental theory and the field s history

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Bibliographia Biotheoretica, Series C, Vol. VI , *Redirecting Science: Niels Bohr, Philanthropy, and the Rise of Nuclear Physics* Finn Aaserud,2019-08-17 How and why do complex scientific disciplines such as physics change emphasis from one sub discipline to another Do such transitions stem entirely from developments within the discipline itself or also from external factors This book addresses these questions by examining the transition from atomic to nuclear physics theoretically and experimentally at Niels Bohr s Institute for Theoretical Physics in Copenhagen in the 1930s On the basis of extensive

archival research Finn Aaserud shows that the Copenhagen spirit the playful research atmosphere under Bohr s fatherly guidance that permeated the Institute thrived because of extra scientific circumstances that Bohr exploited to the fullest such as the need to help Jewish physicists out of Hitler s Germany and the changing funding policies of private foundations notably those of the Rockefeller Foundation which made it opportune to introduce research in experimental biology at the Institute A clear carefully developed and substantially convincing argument Aaserud gives a detailed and impressively documented account of the direction of Bohr s scientific interests Aaserud is to be congratulated for his original clear indeed didactic work of scholarship and enlightenment Paul Forman Physics Today A professional historian s study of the happenings at the Niels Bohr Institute in the decisive years 1930 to 1940 In particular the support of the Institute by Danish and other foundations mainly the Rockefeller Foundation are treated in great detail revealing many interesting aspects of these relationships The detailed accounts of Bohr s negotiations are a testimony to Bohr s uncanny ability to get what he wanted from the various foundations Aaserud s book is an invaluable source of information showing that Bohr was not only an inspiring physicist and philosopher but also a cunning negotiator who knew how to make use of his great reputation for the benefit of science Victor F Weisskopf Science Aaserud elucidates Bohr s skills not only as mentor and guiding hand behind the Copenhagen spirit but also as financial negotiator Neil Wasserman Isis A Journal of the History of Science Society This book teaches us that running such a truly elite institution required entrepreneurial skills as well as scientific genius Bohr had an abundance of both Jeremy Bernstein Nature Redirecting Science is the history of Bohr s institute during the 1930s when it experienced a drastic change in its research priorities from a laissez faire mode of work and lack of clearly defined research programme to a concerted research effort in nuclear physics and experimental biology Aaserud gives a highly interesting account of the interaction between physics and biology Aaserud s carefully documented work is an excellent example of how institutional history may transcend social and institutional limitations and integrate also conceptual history of science Helge Kragh Centaurus By showing that a new research programme at one of the most important scientific institutes in the world was triggered and pushed forward by social and financial considerations this book delivers yet another blow to the tired old idea that scientific knowledge is driven by its own internal inexorable logic It also throws valuable light on Bohr s activities and strategies as a fundraiser and institution builder John Krige The British Journal for the History of Science Radiation Protection of Personnel and Radiochemical Laboratories, Their Design and Operation ,1950

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