Compendium Of Neutron Spectra And Detector Responses For Radiation Protection Purposes Technical Reports No 318

This book covers 27 articles in the applications of artificial neural networks (ANN) in various disciplines which includes business, chemical technology, computing, engineering, environmental science, science and nanotechnology. They modeled the ANN with verification in different areas. They demonstrated that the ANN is very useful model and the ANN could be applied in problem solving and machine learning. This book is suitable for all professionals and scientists in understanding how ANN is applied in various areas.

Proceedings of the International Conference, Antwerp, Belgium, September 6-10, 1982

Etched Track Neutron Dosimetry

Final Report of a Co-ordinated Research Programme on Handling of Tritum-Contaminated Effluents and Wastes

1993 IEEE Conference Record

The Dosimetry of Ionizing Radiation

Nuclear Science Abstracts

The Dosimetry of Ionizing Radiation, Volume II, attempts to fill the need for updated reference material on the field of radiation dosimetry. This book presents some broad topics in dosimetry and a variety of radiation dosimetry instrumentation and its application. The book opens with a chapter that extends and applies the concepts of microdosimetry to biological systems. This is followed by separate chapters on the state-of-the-art equipment and techniques used to determine neutron spectra; studies to determine recombination effects in ionization chambers exposed to high-intensity pulsed radiation; advances in water and polystyrene calorimetry; and beta-photon dosimetry for radiation protection. This book is clearly a valuable collection of work by outstanding authorities in their individual fields. It has an international flavor, with authors from England, Canada, and the United States. The quality of the work is equal to the best of what has been published in the past.

At the time of its establishment in 1966, by the International Council of Scientific Unions (ICSU), the Committee on Data for Science and Technol ogy (CODATA) was given the basic mission of promoting and encouraging, on a worldwide basis, the production and distribution of compendia and of collections of critically selected numerical data on substances other forms of interest and importance to science and technology. To accomplish this aim, the following tasks were assigned to CODATA: (1) To ascertain, on a worldwide basis, what work on compilation of numerical data is being carried on in each country and under each union, and from this information, to prepare and distribute a Directory or Com pendium of the Data-Compiling Projects and Related Publications of the World; (2) To achieve coordination of existing programs and to recommend new programs; (3) To encourage, from all appropriate sources, financial support for work on compilation; (4) To encourage the use of internationally approved symbols, units, constants, terminology, and nomenclature; (5) To encourage and coordinate research on new methods for preparing and disseminating data for science and technology. In its first two years of operation, 1966 to 1968, in Washington, D. c. , U. S. A. , CODATA fortunately had as its Director Dr. GUY WADDINGTON, who was also Director of the Office of Critical Tables of the National Research Council (NRC), U. S. A. Dr.

Compendium of Neutron Spectra and Detector Responses for Radiation Protection Purposes

International Compendium of Numerical Data Projects

Reactor Dosimetry: Proceedings Of The 9th International Symposium

International Conference, 12-18 June 1994, Crete, Greece

A Compendium of Thermal Neutron Cross Sections Averaged Over the Spectra of Wigner and Wilkins

Management of Tritium at Nuclear FacilitiesFinal Report of a Co-ordinated Research Programme on Handling of Tritum-Contaminated Effluents and WastesCompendium of Neutron Spectra and Detector Responses for Radiation Protection PurposesSupplement to Technical Reports Series No. 318

This text is an invaluable, comprehensive data reference for anyone involved in health physics or radiation safety. This new edition addresses the specific data requirements of health physicists, with data presented in large tables, including the latest NCRP recommendations, which are tabulated and given in both SI and traditional units for ease of use. Although portions of these data can be obtained from various internet sites, many are obscure, difficult to navigate and/or have conflicting information for

even the most common data, such as specific gamma ray constants. This new edition compiles all essential data in this vast field into one user-friendly, authoritative source. It also offers a website with full-text search capability. Markets include radiation safety, medical physics and nuclear medicine

Eps: High Energy Physics '95: Proceedings Of The International Europhysics Conference

Neutron Dosimetry in Radiation Protection

Nuclear Data for Science and Technology

Proceedings of the International Conference Antwerp 6-10 September 1982

Technical Reports Series

Values of 21 energy-dependent microscopic cross sections were estimated on the basis of the latest experimental data and averaged up to 0.625 ev over Wigner-Wilkins neutron spectra for 700 mixtures of U-235, Pu-239, a 1/v absorber, and a hydrogen moderator.

This supplement is an update of Technical Report Series No. 318, Compendium of Neutron Spectra and Detector Responses for Radiation Protection Purposes (1990), that takes into account the major changes in the recommended energy dependence of risk related quantities, the increased importance of high neutron energies, the increased use of boron neutron capture therapy, promising new developments in detector design, new measured workplace spectra and improved calibration facilities. It includes the fluence to dose equivalent conversion coefficients for the recently recommended radiation protection quantities and a large number of fluence response functions for recently developed or improved detectors, as well as over 200 new spectra.

Reactor Dosimetry State of the Art 2008

Bulletin

Health Physics and Radiological Health

Nuclear Science Symposium & Medical Imaging Conference

This symposium provided a forum for interchange of state-of-the-art techniques and databases and for standardization of radiation metrology.The proceedings are of value to anyone involved in reactor dosimetry, including researchers, manufacturers, and representatives from industry, utilities and regulatory agencies. The major topics treated are: reactor pressure vessel surveillance and plant life management; reactor dosimetry techniques; benchmarks; nuclear data; damage correlation and exposure parameters; experimental and calculational characterization of irradiation environments; dosimetry for research reactors and irradiation experiments.

The idea of simulating the brain was the goal of many pioneering works in Artificial Intelligence. The brain has been seen as a neural network, or a set of nodes, or neurons, connected by communication lines. Currently, there has been increasing interest in the use of neural network models. This book contains chapters on basic concepts of artificial neural networks, recent connectionist architectures and several successful applications in various fields of knowledge, from assisted speech therapy to remote sensing of hydrological parameters, from fabric defect classification to application in civil engineering. This is a current book on Artificial Neural Networks and Applications, bringing recent advances in the area to the reader interested in this always-evolving machine learning technique.

Artificial Neural Networks

NBS Special Publication

Activation Foil Irradiation with Californium Fission Sources

Management of Tritium at Nuclear Facilities

International Atomic Energy Agency Publications

Proceedings of the 8th ASTM-Euratom Symposium, held in Vail, Colorado, Aug.-Sept. 1993, to provide a forum for experts to discuss their latest results under the broad theme of dosimetry for the correlation of radiation effects. Preceded by a summary of the keynote presentations and followed by summa

This book presents the state of the art in reactor dosimetry as applied to nuclear power plants and to high performance research reactors, accelerator-driven systems and spallation sources. The reader will also find the latest advances in computer code development for radiation transport and shielding. In addition, the book focuses on radiation measurement techniques.

Proceedings of the Seventh Symposium on Neutron Dosimetry Held at Berlin, Federal Republic of Germany, October 14-18, 1991

Proceedings of the 11th International Symposium on Reactor Dosimetry : Brussels, Belgium, 18-23 August 2002

Application

Activation Foil Irradiation by Reactor Cavity Fission Sources

Reactor Dosimetry