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KEY=RADIOLOGICAL - ERICKSON ANASTASIA

Radionuclide Release Into the Environment Assessment of Doses to Man : a Report of Committee 4 of the International Commission on Radiological Protection The Nature of Radioactive Fallout and Its Effects on Man Hearings Before the Special Subcommittee on Radiation of the Joint Committee on Atomic Energy, Congress of the United States, Eighty-fifth Congress, First Session ... The Nature of Radioactive Fallout and Its Effects on Man Hearings ... Eighty-fifth Congress, First Session ... Radionuclide Release Into the Environment Assessment of Doses to Man (Superseded by ICRP Publication 43) : a Report of Committee 4 of the International Commission on Radiological Protection Radioactive Wastes and the Ocean Wiley-Interscience **New York : John Wiley and Sons, [1983]. A Review of the Dose Reconstruction Program of the Defense Threat Reduction Agency** National Academies Press **From 1945 through 1962, the US atmospheric nuclear weapons testing program involved hundreds of thousands of military and civilian personnel, and some of them were exposed to ionizing radiation. Veterans' groups have since been concerned that their members' health was affected by radiation exposure associated with participation in nuclear tests and have pressured Congress for**

disability compensation. Several pieces of legislation have been passed to compensate both military and civilian personnel for such health effects. Veterans' concerns about the accuracy of reconstructed doses prompted Congress to have the General Accounting Office (GAO) review the dose reconstruction program used to estimate exposure. The GAO study concluded that dose reconstruction is a valid method of estimating radiation dose and could be used as the basis of compensation. It also recommended an independent review of the dose reconstruction program. The result of that recommendation was a congressional mandate that the Defense Threat Reduction Agency (DTRA), a part of the Department of Defense, ask the National Research Council to conduct an independent review of the dose reconstruction program. In response to that request, the National Research Council established the Committee to Review the Dose Reconstruction Program of the Defense Threat Reduction Agency in the Board on Radiation Effects Research (BRER). The committee randomly selected sample records of doses that had been reconstructed by DTRA and carefully evaluated them. The committee's report describes its findings and provides responses to many of the questions that have been raised by the veterans. Radiation Dose Management in the Nuclear Industry Proceedings of the Conference Organised by the British Nuclear Energy Society and Held in Windermere, Cumbria, on 9-11 October 1995 Thomas Telford **The revised recommendations of the ICRP in its Publication 60 have led to significant changes in attitudes and to a new culture of radiological protection. Lower dose limits and the requirement to ensure that exposure is as low as reasonably achievable means that detailed attention must be given to radiological aspects from design, through commissioning, operation and maintenance, to eventual decommissioning. In this book the authors discuss the complex solutions to the problems of dose reduction, involving a scientific approach to the understanding of the sources of exposure, good engineering in the design and operation of facilities and efficient management of radiation protection. The context is a nuclear industry under pressure to reduce costs and increase efficiency. It is ever more important therefore to ensure that radiological factors do not unduly constrain the operation of plant. Radioactive Air Sampling Methods** CRC Press **Although the field of radioactive air sampling has matured and evolved over decades, it has lacked a single resource that assimilates technical and background information on its many facets. Edited by experts and with contributions from top practitioners and researchers, Radioactive Air Sampling Methods provides authoritative guidance on measuring airborne radioactivity from industrial, research, and nuclear power operations, as well as naturally occuring radioactivity in the environment. Designed for industrial hygienists, air quality experts, and heath physicists, the book delves into the applied research advancing and transforming practice with improvements to measurement equipment, human dose modeling of inhaled radioactivity, and radiation safety regulations. To present a wide picture of the field, it covers the international and national standards that guide the**

quality of air sampling measurements and equipment. It discusses emergency response issues, including radioactive fallout and the assets used to assess airborne radioactive emergencies. The book includes a comprehensive series of air sampling methods for commonly encountered radioactive isotopes in the industrial environment that detail the steps to conducting a proper air sampling study. With coverage of fundamental air sampling techniques and practical knowledge, the book provides insight into the contemporary thinking of experts, the maturity of the field, and its deep literature base. Building a bridge between the science behind air sampling and its practice, it supplies the know-how required to achieve technically rigorous air sampling data. Health Physics and Radiological Health Lippincott Williams & Wilkins **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 Disposal of Hanford Defense High-level, Transuranic and Tank Wastes, Hanford Site, Richland, Washington: Appendices A-L Nuclear Safety Environmental Health Perspectives Supplements Nuclear Science Abstracts Radionuclide Release Into the Environment Assessment of Doses to Man : a Report of Committee 4 of the International Commission on Radiological Protection Adopted by the Commission in October 1978 Hearings and Reports on Atomic Energy Radiation Dose from Multidetector CT** Springer Science & Business Media **Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner. This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique. The second edition includes a number of new chapters on the most up-to-date strategies and technologies for radiation dose reduction while updating the outstanding contents of the first edition. Vendor perspectives are included, and an online image gallery will also be available to readers. A Review of Determinations of Radiation Dose to the Active Bone Marrow from Diagnostic X-ray Examinations Radionuclide Release Into the Environment Assessment of Doses to Man : a Report Commercially**

Generated Radioactive Waste Management Environmental Impact Statement Instrumentation and Monitoring Methods for Radiation Protection Recommendations of the National Council on Radiation Protection and Measurements National Council on Radiation **Biological Radiation Effects** Springer Science & Business Media **The biological action of radiation undoubtedly constitutes an issue of actual con cern, particularly after incidences like those in Harrisburg or Chernobyl. These considerations, however, were not the reason for writing this book although it is hoped that it will also be helpful in this respect. The interaction of radiation with biological systems is such an interesting research objective that to my mind no special justification is needed to pursue these problems. The combination of physics, chemistry and biology presents on one hand a fascinating challenge to the student, on the other, it may lead to insights which are not possible if the dif ferent subjects remain clearly separated. Special problems of radiation biology have quite often led to new approaches in physics (or vice versa), a recent example is "microdosimetry" (chapter 4). Biological radiation a9tion comprises all levels of biological organization. It starts with the absorption in essential atoms and molecules and ends with the development of cancer and genetic hazards to future generations. The structure of the book reflects this. Beginning with physical and chemical fundamentals, it then turns to a description of chemical and subcellular systems. Cellular effects form a large part since they are the basis for understanding all further responses. Reactions of the whole organism, concentrating on mammals and especially humans, are subsequently treated. The book concludes with a short discussion of problems in radiation protection and the application of radiation in medical therapy. These last points are necessarily short and somewhat superficial. Savannah River Plant, Defense Waste Processing Facility Environmental Impact Statement Management of Commercially Generated Radioactive Waste Fallout, Radiation Standards, and Countermeasures Hearings Before the United States Joint Committee on Atomic Energy, Subcommittee on Research, Development, and Radiation, Eighty-Eighth Congress, First Session Examines amount of nuclear testing fallout radiation in the atmosphere and its effect on humans and agriculture, and considers measures to combat fallout and its effects. Includes HEW report, "Review of Radionuclides in the Food Chain," by James G. Terrill, Jr., June 3, 1963. (p. 71-201). NCRP Report Nuclear Science Abstracts Current Catalog First multi-year cumulation covers six years: 1965-70. Mixed Oxide Fuels, Light Water Reactors, Use of Recycled Plutonium Environmental Impact Statement Fallout, Radiation Standards, and Countermeasures: August 20-22, 27, 1963. pp. 475-1297 Examines amount of nuclear testing fallout radiation in the atmosphere and its effect on humans and agriculture, and considers measures to combat fallout and its effects. Includes HEW report, "Review of Radionuclides in the Food Chain," by James G. Terrill, Jr., June 3, 1963. (p. 71-201), v.1. Includes AEC report, "Iodine-131 in Fresh Milk and Human Thyroids Following a Single Deposition of Nuclear Test Fallout," June 1, 1963 (p. 915-1075); and Milk**

Industry Foundation report, "Radioactive Fallout, A Manual for the Fluid Milk Industry" (p. 1201-1267), v.2. Nuclear Power Hazard Control Policy Elsevier **Nuclear Power Hazard Control Policy provides an analysis of the elements that influenced the development and type of policies on the hazard control of nuclear power in Britain. The book starts with an account of the nuclear hazards and its legal and administrative basis of control. A section of the book is focused on the creation and implementation of policies. The book analyzes some types of radiation and how it is released. The diseases that develop from certain exposure to radiation are also explained. The economic aspects of nuclear power utilization are discussed in detail. Some historical accounts of significance to the study are evaluated. Events such as the British bomb and the arrival of nuclear power are some of the events. The final chapter of the book discusses a possible policy- making system that considers the changes in the environment surrounding the system. The text is intended for legislators, lawyers, nuclear physicists, students, and researchers in the field of law. Handbook of Anatomical Models for Radiation Dosimetry** CRC Press **Over the past few decades, the radiological science community has developed and applied numerous models of the human body for radiation protection, diagnostic imaging, and nuclear medicine therapy. The Handbook of Anatomical Models for Radiation Dosimetry provides a comprehensive review of the development and application of these computational models, known as "phantoms." An ambitious and unparalleled project, this pioneering work is the result of several years of planning and preparation involving 64 authors from across the world. It brings together recommendations and information sanctioned by the International Commission on Radiological Protection (ICRP) and documents 40 years of history and the progress of those involved with cutting-edge work with Monte Carlo Codes and radiation protection dosimetry. This volume was in part spurred on by the ICRP's key decision to adopt voxelized computational phantoms as standards for radiation protection purposes. It is an invaluable reference for those working in that area as well as those employing or developing anatomical models for a a number of clinical applications. Assembling the work of nearly all major phantom developers around the world, this volume examines: The history of the research and development in computational phantoms Detailed accounts for each of the well-known phantoms, including the MIRD-5, GSF Voxel Family Phantoms, NCAT, UF Hybrid Pediatric Phantoms, VIP-Man, and the latest ICRP Reference Phantoms Physical phantoms for experimental radiation dosimetry The smallest voxel size (0.2 mm), phantoms developed from the Chinese Visible Human Project Applications for radiation protection dosimetry involving environmental, nuclear power plant, and internal contamination exposures Medical applications, including nuclear medicine therapy, CT examinations, x-ray radiological image optimization, nuclear medicine imaging, external photon and proton treatments, and management of respiration in modern image-guided radiation treatment Patient-specific phantoms used for radiation treatment planning involving two Monte Carlo**

code systems: GEANT4 and EGS Future needs for research and development Related data sets are available for download on the authors' website. The breadth and depth of this work enables readers to obtain a unique sense of the complete scientific process in computational phantom development, from the conception of an idea, to the identification of original anatomical data, to solutions of various computing problems, and finally, to the ownership and sharing of results in this groundbreaking field that holds so much promise. Legislative History of Radiation Control for Health and Safety Act of 1968 Hearings, Reports and Prints of the Senate Committee on Public Works Underground Uses of Nuclear Energy Hearings, Ninety-first Congress, First [and Second] Session[s] on S. 3042 ... Fallout, Radiation Standards, and Countermeasures Hearings Before the Subcommittee on Research, Development, and Radiation of the Joint Committee on Atomic Energy, Congress of the United States, Eighty-eighth Congress, First Session Federal Register Manual of Protective Action Guides and Protective Actions for Nuclear Incidents Radiation protection hearings before the Subcommittee on Energy, Nuclear Proliferation, and Federal Services of the Committee on Governmental Affairs, United States Senate, Ninety-sixth Congress, first session .... Environmental Effects of Producing Electric Power Hearings, Ninety-first Congress, First Session ... Hearings, Reports and Prints of the Joint Committee on Atomic Energy