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Atoms, Radiation, and Radiation Protection *John Wiley & Sons*

Atoms, Radiation, and Radiation Protection offers professionals and advanced students a comprehensive coverage of the major concepts that underlie the origins and transport of ionizing radiation in matter. Understanding atomic structure and the physical mechanisms of radiation interactions is the foundation on which much of the current practice of radiological health protection is based. The work covers the detection and measurement of radiation and the statistical interpretation of the data. The procedures that are used to protect man and the environment from the potential harmful effects of radiation are thoroughly described. Basic principles are illustrated with an abundance of worked examples that exemplify practical applications. Chapters include problem sets (with partial answers) and extensive tables and graphs for continued use as a reference work. This completely revised and enlarged third edition includes thorough updates of the material, including the latest recommendations of the ICRP and NCRP.

Outlines and Highlights for Atoms, Radiation, and Radiation Protection by James E Turner, *Isbn*

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Atoms, Radiation, and Radiation Protection 4E

Physics for Radiation Protection

A Handbook *John Wiley & Sons*

A highly practical reference for health physicists and other professionals, addressing practical problems in radiation protection, this new edition has been completely revised, updated and supplemented by such new sections as log-normal distribution and digital radiography, as well as new chapters on internal radiation dose and the environmental transport of radionuclides. Designed for readers with limited as well as basic science backgrounds, the handbook presents clear, thorough and up-to-date explanations of the basic physics necessary. It provides an overview of the major discoveries in radiation physics, plus extensive discussion of radioactivity, including sources and materials, as well as calculational methods for radiation exposure, comprehensive appendices and more than 400 figures. The text draws substantially on current resource data available, which is cross-referenced to standard compendiums, providing decay schemes and emission energies for approximately 100 of the most common radionuclides encountered by practitioners. Excerpts from the Chart of the Nuclides, activation cross sections, fission yields, fission-product chains, photon attenuation coefficients, and nuclear masses are also provided. Throughout, the author emphasizes applied concepts and carefully illustrates all topics using real-world examples as well as exercises. A much-needed

working resource for health physicists and other radiation protection professionals.

Potential Radiation Exposure in Military Operations

Protecting the Soldier Before, During, and After *National Academies Press*

In 1996, NATO issued guidance for the exposure of military personnel to radiation doses different from occupational dose levels, but not high enough to cause acute health effects—and in doing so set policy in a new arena. Scientific and technological developments now permit small groups or individuals to use, or threaten to use, destructive devices (nuclear, biological, chemical, and cyber-based weaponry, among others) targeted anywhere in the world. Political developments, such as the loss of political balance once afforded by competing superpowers, have increased the focus on regional and subregional disputes. What doctrine should guide decisionmaking regarding the potential exposure of troops to radiation in this changed theater of military operations? In 1995, the Office of the U.S. Army Surgeon General asked the Medical Follow-up Agency of the Institute of Medicine to provide advice. This report is the final product of the Committee on Battlefield Radiation Exposure Criteria convened for that purpose. In its 1997 interim report, *Evaluation of Radiation Exposure Guidance for Military Operations*, the committee addressed the technical aspects of the NATO directive. In this final report, the committee reiterates that discussion and places it in an ethical context.

Radiation Protection and Dosimetry

An Introduction to Health Physics *Springer Science & Business Media*

This book provides a comprehensive yet accessible overview of all relevant topics in the field of radiation protection (health physics). The text is organized to introduce the reader to basic principles of radiation emission and propagation, to review current knowledge and historical aspects of the biological effects of radiation, and to cover important operational topics such as radiation shielding and dosimetry. The author's website contains materials for instructors including PowerPoint slides for lectures and worked-out solutions to end-of-chapter exercises. The book serves as an essential handbook for practicing health physics professionals.

An Evaluation of Radiation Exposure Guidance for Military Operations

Interim Report *National Academies Press*

Atoms, Nuclei, and Interactions of Ionizing Radiation with Matter *Cognella Academic Publishing*

Intended for graduate-level introductory courses in nuclear physics and radiation interaction, *Atoms, Nuclei, and Interactions of Ionizing Radiation with Matter* gives students the foundation needed to study specialized subjects such as nuclear reactor physics, radiation transport methods, radiation detection, and radiation dosimetry. The text discusses the modern physics relevant to radiation interaction beginning with a condensed examination of nuclear physics and radioactive decay. There is an examination of nuclear reaction kinematics and how the

different types of radiation engage in various types of nuclear or atomic interactions with matter. The interaction probability is discussed in term of "cross section." Both classical mechanics and wave mechanics are used to derive the cross section formulas. Specific examples are given when classical mechanics breaks down and quantum mechanics prevails. Extensively class-tested, the material in *Atoms, Nuclei, and Interactions of Ionizing Radiation with Matter* successfully links three closely-related subjects so that they can be taught in a succinct, one-semester course. The book is intended to serve as the primary text for entry-level radiation physics courses for students majoring in nuclear engineering, health physics, or medical physics. C-K Chris Wang, who earned his Ph.D. at Ohio State University, is a professor of nuclear engineering and medical physics at Georgia Tech in Atlanta. Dr. Wang has published extensively in neutron dosimetry, detection, spectrometry, and radiobiological modeling. His other areas of expertise include nuclear physics, radiation interaction, Monte Carlo methods in radiation transport, radiation protection and shielding, nuclear criticality safety, micro/nanodosimetry, and high-LET radiotherapy.

Physics for Radiation Protection *John Wiley & Sons*

A practical guide to the basic physics that radiation protection professionals need. A much-needed working resource for health physicists and other radiation protection professionals, this volume presents clear, thorough, up-to-date explanations of the basic physics necessary to address real-world problems in radiation protection. Designed for readers with limited as well

as basic science backgrounds, *Physics for Radiation Protection* emphasizes applied concepts and carefully illustrates all topics through examples as well as practice problems. *Physics for Radiation Protection* draws substantially on current resource data available for health physics use, providing decay schemes and emission energies for approximately 100 of the most common radionuclides encountered by practitioners. Excerpts of the Chart of the Nuclides, activation cross sections, fission yields, fission-product chains, photon attenuation coefficients, and nuclear masses are also provided. Coverage includes: The atom as an energy system. An overview of the major discoveries in radiation physics. Extensive discussion of radioactivity, including sources and materials. Nuclear interactions and processes of radiation dose. Computational methods for radiation exposure, dose, and shielding. Nuclear fission and production of activation and fission products. Specialty topics ranging from nuclear criticality and applied statistics to X rays. Extensive and current resource data cross-referenced to standard compendiums. Extensive appendices and more than 400 figures. This complete discussion of the basic concepts allows readers to advance their professional skills.

Physics for Radiation Protection

A Handbook *John Wiley & Sons*

A highly practical reference for health physicists and other professionals, addressing practical problems in radiation protection, this new edition has been completely revised, updated and supplemented by such new sections as log-normal distribution and digital radiography, as well as new chapters on internal radiation dose and the

environmental transport of radionuclides. Designed for readers with limited as well as basic science backgrounds, the handbook presents clear, thorough and up-to-date explanations of the basic physics necessary. It provides an overview of the major discoveries in radiation physics, plus extensive discussion of radioactivity, including sources and materials, as well as calculational methods for radiation exposure, comprehensive appendices and more than 400 figures. The text draws substantially on current resource data available, which is cross-referenced to standard compendiums, providing decay schemes and emission energies for approximately 100 of the most common radionuclides encountered by practitioners. Excerpts from the Chart of the Nuclides, activation cross sections, fission yields, fission-product chains, photon attenuation coefficients, and nuclear masses are also provided. Throughout, the author emphasizes applied concepts and carefully illustrates all topics using real-world examples as well as exercises. A much-needed working resource for health physicists and other radiation protection professionals.

An Introduction to Radiation Protection *Springer*

Introduction to Radiation *Canadian Nuclear Safety Commission*

Radiochemistry and Nuclear Chemistry *Butterworth-Heinemann*

Radiochemistry or Nuclear Chemistry is the study of radiation from an atomic or molecular perspective, including elemental transformation and reaction effects, as well as physical, health and

medical properties. This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field. In order to further enhance the functionality of this text, the authors have added numerous teaching aids that include an interactive website that features testing, examples in MathCAD with variable quantities and options, hotlinks to relevant text sections from the book, and online self-grading texts. As in the previous edition, readers can closely follow the structure of the chapters from the broad introduction through the more in depth descriptions of radiochemistry then nuclear radiation chemistry and finally the guide to nuclear energy (including energy production, fuel cycle, and waste management). New edition of a well-known, respected text in the specialized field of nuclear/radiochemistry Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry courses

Assessment of the Scientific Information for the Radiation Exposure Screening and Education Program *National Academies Press*

The Radiation Exposure Compensation Act (RECA) was set up by Congress in 1990 to compensate people who have been diagnosed with specified cancers and chronic diseases that could have resulted from exposure to nuclear-weapons tests at various U.S. test sites. Eligible claimants include civilian onsite participants, downwinders who lived in areas currently designated by RECA, and uranium workers and ore transporters who meet specified residence or

exposure criteria. The Health Resources and Services Administration (HRSA), which oversees the screening, education, and referral services program for RECA populations, asked the National Academies to review its program and assess whether new scientific information could be used to improve its program and determine if additional populations or geographic areas should be covered under RECA. The report recommends Congress should establish a new science-based process using a method called "probability of causation/assigned share" (PC/AS) to determine eligibility for compensation. Because fallout may have been higher for people outside RECA-designated areas, the new PC/AS process should apply to all residents of the continental US, Alaska, Hawaii, and overseas US territories who have been diagnosed with specific RECA-compensable diseases and who may have been exposed, even in utero, to radiation from U.S. nuclear-weapons testing fallout. However, because the risks of radiation-induced disease are generally low at the exposure levels of concern in RECA populations, in most cases it is unlikely that exposure to radioactive fallout was a substantial contributing cause of cancer.

Problems and Solutions in Radiation Protection *Pergamon*

Radiation Oncology Physics

A Handbook for Teachers and Students *IAEA*

This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form

of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy technology.

Nuclear Energy

An Introduction to the Concepts, Systems, and Applications of Nuclear Processes *Elsevier*

This expanded, revised, and updated fourth edition of Nuclear Energy maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other

fields.

Exercises with Solutions in Radiation Physics *Walter de Gruyter GmbH & Co KG*

The textbook begins with exercises related to radioactive sources and decay schemes. The problems covered include series decay and how to determine the frequency and energy of emitted particles in disintegrations. The next chapter deals with the interaction of ionizing radiation, including the treatment of photons and charged particles. The main focus is on applications based on the knowledge of interaction, to be used in subsequent work and courses. The textbook then examines detectors and measurements, including both counting statistics and properties of pulse detectors. The chapter that follows is dedicated to dosimetry, which is a major subject in medical radiation physics. It covers theoretical applications, such as different equilibrium situations and cavity theories, as well as experimental dosimetry, including ionization chambers and solid state and liquid dosimeters. A shorter chapter deals with radiobiology, where different cell survival models are considered. The last chapter concerns radiation protection and health physics. Both radioecology and radiation shielding calculations are covered. The textbook includes tables to simplify the solutions of the exercises, but the reader is mainly referred to important websites for importing necessary data.

Radiation Protection

A Guide for Scientists and Physicians *Tstc Publishing*

TechCareers: Graphic Design explores the career potential in the centuries-old

tradition of graphic design and printing. It provides insight into what the future might hold for those interested in entering the field. With sections on education and training requirements, as well as job descriptions and salary ranges, TechCareers: Graphic Design is a great resource for anyone considering a career in the business.

Radiation and Health *CRC Press*

Radiation and the effects of radioactivity have been known for more than 100 years. International research spanning this period has yielded a great deal of information about radiation and its biological effects and this activity has resulted in the discovery of many applications in medicine and industry including cancer therapy, medical diagnostics

Radiation Safety Manual

Health Risks from Exposure to Low Levels of Ionizing Radiation

BEIR VII _ Phase 2 *National Academies Press*

This book is the seventh in a series of titles from the National Research Council that addresses the effects of exposure to low dose LET (Linear Energy Transfer) ionizing radiation and human health. Updating information previously presented in the 1990 publication, Health Effects of Exposure to Low Levels of Ionizing Radiation: BEIR V, this book draws upon new data in both epidemiologic and experimental research. Ionizing radiation arises from both natural and man-made sources and at very high doses can produce damaging effects in human tissue that can be evident within days after exposure. However, it is the low-dose

exposures that are the focus of this book. So-called "late" effects, such as cancer, are produced many years after the initial exposure. This book is among the first of its kind to include detailed risk estimates for cancer incidence in addition to cancer mortality. BEIR VII offers a full review of the available biological, biophysical, and epidemiological literature since the last BEIR report on the subject and develops the most up-to-date and comprehensive risk estimates for cancer and other health effects from exposure to low-level ionizing radiation.

Nature's Invisible Rays

Describes the invisible radiation that occurs naturally on earth. One in a series describing the fields of nuclear energy.

Adverse Reproductive Outcomes in Families of Atomic Veterans

The Feasibility of Epidemiologic Studies *National Academies Press*

Over the past several decades, public concern over exposure to ionizing radiation has increased. This concern has manifested itself in different ways depending on the perception of risk to different individuals and different groups and the circumstances of their exposure. One such group are those U.S. servicemen (the "Atomic Veterans" who participated in the atmospheric testing of nuclear weapons at the Nevada Test Site or in the Pacific Proving Grounds, who served with occupation forces in or near Hiroshima and Nagasaki, or who were prisoners of war in or near those cities at the time of, or shortly after, the atomic bombings. This book addresses the feasibility of conducting an epidemiologic study to determine if there is an increased risk of adverse

reproductive outcomes in the spouses, children, and grandchildren of the Atomic Veterans.

Radiation Shielding *Amer Nuclear Society*

This newly published book is intended for dual use as a textbook for students in radiation shielding courses and a reference work for shielding practitioners. It emphasizes the principles behind techniques used in various aspects of shield analysis and presents these principles in many different contexts. This approach is intended to provide a strong base of understanding in order to facilitate use of the large shielding codes that have come to dominate shielding design and analysis. An assumption is made that the reader has an understanding of mathematics through basic calculus and vector analysis as well as a knowledge of the nuclear physics of radioactive decay. For most chapters, problem sets are provided.

Radiation-- Risks and Realities *United States Government Printing*

Airborne Radioactive Discharges and Human Health Effects: An Introduction *Institute of Physics Publishing*

This book is an essential introduction to the basic principles of radiation protection and aerosol physics, including applications within international and UK law for the protection of the public against the dangers arising from ionising radiation. The text also discusses the difficulties with the monitoring and the health detriment associated with problematic radionuclides.

Health Physics

Principles of Radiation Protection

London : Butterworths

Airport Passenger Screening Using Backscatter X-Ray Machines

Compliance with Standards *National Academies Press*

Passenger screening at commercial airports in the United States has gone through significant changes since the events of September 11, 2001. In response to increased concern over terrorist attacks on aircrafts, the Transportation Security Administration (TSA) has deployed security systems of advanced imaging technology (AIT) to screen passengers at airports. To date (December 2014), TSA has deployed AITs in U.S. airports of two different technologies that use different types of radiation to detect threats: millimeter wave and X-ray backscatter AIT systems. X-ray backscatter AITs were deployed in U.S. airports in 2008 and subsequently removed from all airports by June 2013 due to privacy concerns. TSA is looking to deploy a second-generation X-ray backscatter AIT equipped with privacy software to eliminate production of an image of the person being screened in order to alleviate these concerns. This report reviews previous studies as well as current processes used by the Department of Homeland Security and equipment manufacturers to estimate radiation exposures resulting from backscatter X-ray advanced imaging technology system use in screening air travelers. *Airport Passenger Screening Using Backscatter X-Ray Machines* examines whether exposures comply with applicable health and safety standards for public and occupational exposures to ionizing radiation and whether system design, operating

procedures, and maintenance procedures are appropriate to prevent over exposures of travelers and operators to ionizing radiation. This study aims to address concerns about exposure to radiation from X-ray backscatter AITs raised by Congress, individuals within the scientific community, and others.

Johns and Cunningham's The Physics of Radiology *Charles C Thomas Publisher*

The fifth edition of this respected book encompasses all the advances and changes that have been made since it was last revised. It not only presents new ideas and information, it shifts its emphases to accurately reflect the inevitably changing perspectives in the field engendered by progress in the understanding of radiological physics. The rapid development of computing technology in the three decades since the publication of the fourth edition has enabled the equally rapid expansion of radiology, radiation oncology, nuclear medicine and radiobiology. The understanding of these clinical disciplines is dependent on an appreciation of the underlying physics. The basic radiation physics of relevance to clinical oncology, radiology and nuclear medicine has undergone little change over the last 70 years, so much of the material in the introductory chapters retains the essential flavour of the fourth edition, updated as required. This book is written to help the practitioners in these fields understand the physical science, as well as to serve as a basic tool for physics students who intend working as medical radiation physicists in these clinical fields. It is the authors' hope that students and practitioners alike will find the fifth

edition of *The Physics of Radiology* lucid and straightforward.

Radiation Protection

A Guide for Scientists and Physicians [by] Jacob Shapiro

Principles of Radiological Health and Safety *Wiley-Interscience*

A practical guide to radiation safety. Many health and scientific professionals require a basic understanding of radiological safety principles, even and especially if they are not specialists in radiological health. *Principles of Radiological Health and Safety* is designed for this purpose as well as a resource for safety personnel who also handle radiation safety duties. It is a text of basic concepts needed in broad-based protection programs, with real-world examples and practice problems to demonstrate principles and hone skills. Resource data for practical problems in radiation protection are provided along with illustrative examples of their use. For example, modes and energies of radioactive transformation, radiation attenuation and absorption, dose coefficients, and environmental transport parameters are included for many of the common circumstances encountered in laboratory and industrial settings. These are cross referenced to standard compendiums for straightforward use when more in-depth listings need to be consulted. Other topics include: * Atom structure and radioactivity * Radiation protection standards and programs * Radiation interactions and dose * Environmental radiological assessment * Radiation shielding * Radon * Internal radiation dosimetry * Radioactive waste Safety professionals as well as students and

teachers will find *Principles of Radiological Health and Safety* to be an invaluable addition to their professional and academic libraries.

Nuclear Medicine Physics

A Handbook for Teachers and Students

This publication provides the basis for the education of medical physicists initiating their university studies in the field of nuclear medicine. The handbook includes 20 chapters and covers topics relevant to nuclear medicine physics, including basic physics for nuclear medicine, radionuclide production, imaging and non-imaging detectors, quantitative nuclear medicine, internal dosimetry in clinical practice and radionuclide therapy. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of medical physics in modern nuclear medicine.

Closing the Circle on the Splitting of the Atom *DIANE Publishing*

Describes environmental, safety, and health problems throughout the nuclear weapons complex and what the U.S. Dept. of Energy is doing to address them. Covers: building nuclear warheads: the process; wastes and other byproducts of the cold war (spent nuclear fuel, plutonium residues, radioactive waste, transuranic waste, hazardous waste, etc.); contamination and cleanup; an international perspective; transition to new missions; and looking to the future. Over 100 b/w photos. Extensive glossary and bibliography.

Radiation Safety in Nuclear

Medicine, Second Edition *CRC Press*

Recent advances in the field of nuclear medicine (NM) are expanding the role and responsibilities of the nuclear medicine technologist (NMT) to include more complex and detailed tasks. New technologies are making the diagnosis, management, and treatment of illnesses more sensitive, more specific, more accurate, and ultimately safer for both the patient and the technologist. *Radiation Safety in Nuclear Medicine, Second Edition* provides the latest technological advances and expanded responsibilities of today's NMT while laying a solid foundation for understanding the basic physics behind the technology. As with the original, this edition teaches the units of radioactivity, exposure, and dosimetry, along with the principles of instrumentation needed for detection and measurement. Focusing on the issues of safety, this volume devotes considerable attention to the science and practice of safety techniques and includes information on rules and regulations. In keeping with the expanding nature of the field, the second edition incorporates many updates and additions such as, Recent modifications to the U.S. Code of Federal Regulations specific to the use of radiopharmaceuticals in medicine The growing popularity of metabolic imaging with positron emissions tomography (PET) The benefits of merging two modalities, namely, the images of PET and computerized tomography (CT) into one short scanning procedure The new role of therapeutic radiopharmaceuticals that use molecular targeting as a method of localization Providing a basic understanding of nuclear medicine, its scientific basis, diagnostic and therapeutic applications, safety practices and regulations, and future directions,

Radiation Safety in Nuclear Medicine, Second Edition is the comprehensive reference for technologists, students, researchers, and other professionals in the Nuclear Medicine.

Radiation Safety

Radiation Protection in Medical Radiography - E-Book *Elsevier Health Sciences*

Master the basic principles and techniques of radiation safety! *Radiation Protection in Medical Radiography, 9th Edition* makes it easy to understand both basic and complex concepts in radiation protection, radiobiology, and radiation physics. Concise, full-color coverage discusses the safe use of ionizing radiation in all imaging modalities, including the effects of radiation on humans at the cellular and systemic levels, regulatory and advisory limits for exposure to radiation, and the implementation of radiation safety practices for patients and personnel. From a team of authors led by radiologic technology educator Mary Alice Statkiewicz Sherer, this text also prepares you for success on the ARRT certification exam and state licensing exams. Clear and concise writing style covers key concepts in radiation protection, biology, and physics in a building-block approach progressing from basic to more complex. Convenient, easy-to-use features make learning easier with chapter outlines and objectives, listing and highlighting of key terms, and bulleted summaries. Full-color illustrations and photos depict important concepts, and tables make information easy to reference. Timely coverage of radiation protection regulations addresses radiation awareness and education efforts across

the globe. Chapter summaries and review questions allow you to assess your comprehension and retention of the most important information, with answers on the Evolve companion website. NEW! Updated content reflects the latest ARRT and ASRT curriculum guidelines. NEW! Updated NCRP and ICRP content includes guidelines, regulations, and radiation quantities and units, explaining the effects of low-level ionizing radiation, demonstrating the link between radiation and cancer and other diseases, and providing the regulatory perspective needed for practice.

Radiation Protection

A Guide for Scientists, Regulators, and Physicians *La Editorial, UPR*

This highly successful manual has served for nearly three decades as the definitive guide to the safe use of radioactive materials. Completely revised and updated, the fourth edition presents a new dimension by adding coverage of nonionizing radiation, and is thus concerned with the entire field of radiation protection. The author takes the novel approach of introducing the whole range of energies possessed by particles and electromagnetic waves at the beginning of the text, thus integrating coverage of ionizing and nonionizing radiation rather than considering them as two separate disciplines. He goes on to cover the entire spectrum of radiation sources, including radionuclides, x-ray machines, accelerators, nuclear reactors, power lines, microwave towers, and cellular phones. With its expanded coverage, including a broader focus on public

health issues, this new volume will serve as an important training and reference resource, not only for research scientists, physicians, and engineers, but for regulatory officials, attorneys, engineers, and environmental health and safety professionals. The breadth of citations alone makes this resource invaluable.

50 Years of Radiation Protection and Nuclear Power in Switzerland: a Brief History

This article presents a short history of research in nuclear physics as well as of 50 years of nuclear power and radiation protection in Switzerland. After the International Conference 'Atoms for Peace' held in 1955 in Geneva the first research reactor was installed in Switzerland. A national environmental radioactivity monitoring programme was started in 1956. Today some 40% of the electricity is produced by nuclear power. In 1986, the southern part of Switzerland was most burdened by radioactive fallout from the Chernobyl Accident. Fortunately, the integral average radiation doses to the population remained below 0.5 milli-Sievert. As in other western countries there was a vigorous debate in Switzerland in the 1980s and 1990s about nuclear power, nuclear safety and the safe storage of radioactive waste.

Radiation Protection in Educational Institutions

Recommendations of the National Council on Radiation Protection and Measurements *NCRP*