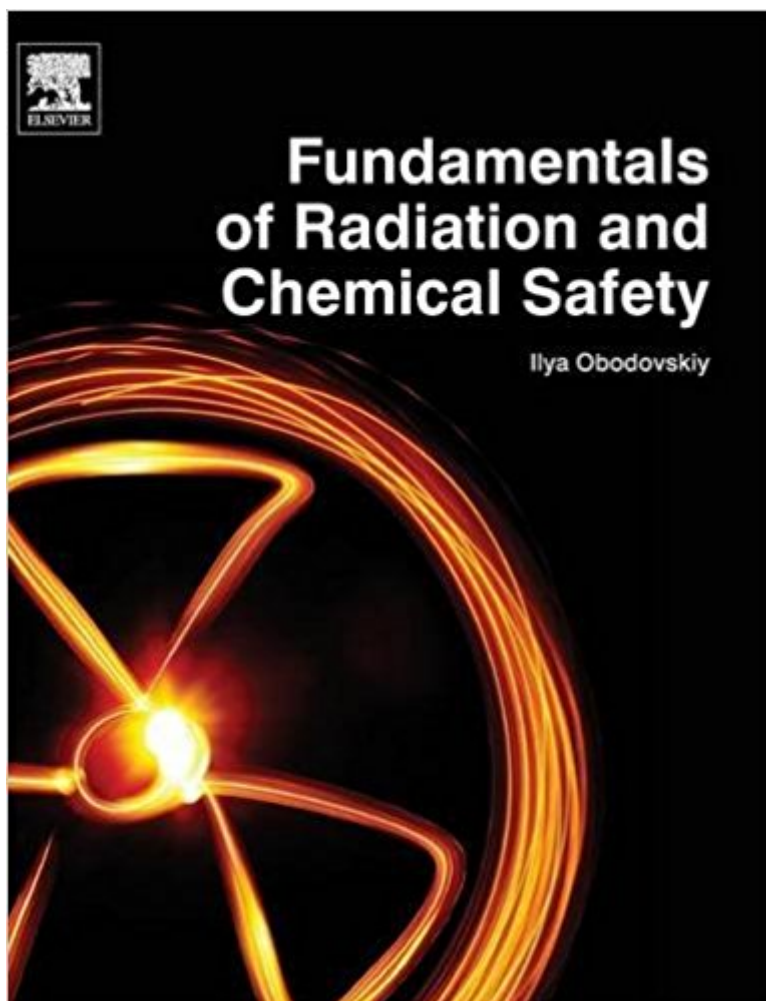




**Ebook Directory**  
the best source of ebook

The book was found

# Fundamentals Of Radiation And Chemical Safety



## Synopsis

Fundamentals of Radiation and Chemical Safety covers the effects and mechanisms involved in radiation and chemical exposure on humans. The mechanisms and effects of these damaging factors have many aspects in common, as do their research methodology and the methods used for data processing. In many cases of these types of exposures the same final effect can also be noted: Cancer. Low doses of radiation and small doses of chemical exposure are continuously active and they could influence the entire population. The analysis of these two main source hazards on the lives of the human population is covered here for the first time in a single volume determining and demonstrating their common basis. Fundamentals of Radiation and Chemical Safety includes the necessary knowledge from nuclear physics, chemistry and biology, as well the methods of processing the experimental results. This title focuses on the effects of low radiation dosage and chemical hormesis as well as the hazards associated with, and safety precautions in radiation and chemicals, rather than the more commonly noted safety issues high level emergencies and disasters of this type. Brings together, for the first time, the problems of radiation and chemical safety on a common biophysical basis. Relates hazards caused by ionizing radiation and chemicals and discusses the common effective mechanisms. Outlines common methodology and data processing between radiation and regular chemical hazards. Concerns primarily with low levels of radiation and chemical exposure.

## Book Information

Hardcover: 264 pages

Publisher: Elsevier; 1 edition (February 19, 2015)

Language: English

ISBN-10: 0128020261

ISBN-13: 978-0128020265

Product Dimensions: 7.5 x 0.6 x 9.2 inches

Shipping Weight: 0.3 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #874,978 in Books (See Top 100 in Books) #23 in [Books > Science & Math > Chemistry > Nuclear Chemistry](#) #291 in [Books > Science & Math > Physics > Solid-State Physics](#) #546 in [Books > Textbooks > Engineering > Chemical Engineering](#)

## Customer Reviews

Fundamentals of Radiation and Chemical Safety covers the effects and mechanisms involved in

radiation and chemical exposure on humans. The mechanisms and effects of these damaging factors have many aspects in common, as do their research methodology and the methods used for data processing. In many cases of these types of exposures the same final effect can also be noted: Cancer. Low doses of radiation and small doses of chemical exposure are continuously active and they could influence the entire population. The analysis of these two main source hazards on the lives of the human population. The analysis of these two main source hazards on the lives of the human population is covered here for the first time in a single volume determining and demonstrating their common basis. Fundamentals of Radiation and Chemical Safety includes the necessary knowledge from nuclear physics, chemistry and biology, as well the methods of processing the experimental results. Intended for students, graduate students and professionals in the fields of physics, chemistry, biology, ecology, and a range of interdisciplinary sciences. The book can also be used by practitioners as a reference in order to find more detailed information on special issues of radiation and chemical safety. Tis title focuses on the effects of low radiation dosage and chemical hormesis as well as the hazards associated with, and safety precautions in radiation and chemicals, rather than the more commonly noted safety issues high level emergencies and disasters of this type. Brings together, for the first time, the problems of radiation and chemical safety on a common biophysical basis. Relates hazards caused by ionizing radiation and chemicals and discusses the common effective mechanisms. Outlines common methodology and data processing between radiation and regular chemical hazards. Concerns primarily with low levels of radiation and chemical exposure

Ilya Obodovskiy graduated from Moscow Engineering and Physics Institute (MEPhI) and then for more than 40 years followed his lecturing and research work in this Institute. His research interests are focused on radiation detection and measurement, on the effects of radiation on matter. His Ph.D. was devoted to scintillations in alkali-halide crystals. During long period the main object of research for him and his laboratory was radiation processes in liquid and solid noble gases. The results of these investigations could be found in more than 70 published papers, together with his collaborators he received several patents. He was also invited as an expert to survey some radiation environment in the areas of underground nuclear explosions. In the 1990-s Obodovskiy became interested in the physico-chemical methods of detection of mutagen and carcinogen hazard. As a result he has managed a number of national and international collaborative projects, in particular, the Project of the International Science and Technology Center. Currently I. Obodovskiy is an independent researcher, the author of some recently published books and he also continues

his scientific research.

[Download to continue reading...](#)

Fundamentals of Radiation and Chemical Safety Radiation Nation: Fallout of Modern Technology - Your Complete Guide to EMF Protection & Safety: The Proven Health Risks of Electromagnetic Radiation (EMF) & What to Do Protect Yourself & Family Chemical Process Safety: Fundamentals with Applications (3rd Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Fullpower Safety Comics: People Safety Skills for Teens and Adults (Kidpower Safety Comics) Kidpower Youth Safety Comics: People Safety Skills For Kids Ages 9-14 (Kidpower Safety Comics) Atoms, Radiation, and Radiation Protection Atoms, Radiation, and Radiation Protection, 2nd Edition Treatment Planning in the Radiation Therapy of Cancer (Frontiers of Radiation Therapy and Oncology, Vol. 21) (v. 21) ASP Safety Fundamentals Exam Flashcard Study System: ASP Test Practice Questions & Review for the Associate Safety Professional Exam (Cards) Chemical Process Safety: Fundamentals with Applications (2nd Edition) Fundamentals of Chemical Engineering Thermodynamics (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) RF and Microwave Radiation Safety, Second Edition RF Radiation Safety Handbook Advanced Molecular Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the Quantum Theory of Radiation (Studies in Chemical Physics) Atomic and Molecular Radiation Physics (Wiley Monographs on Chemical Physics) Electromagnetic Wave Propagation, Radiation, and Scattering: From Fundamentals to Applications (IEEE Press Series on Electromagnetic Wave Theory) Fundamentals of Radiation Chemistry Facebook Safety and Privacy (21st Century Safety and Privacy) Plastic Injection Molding: Mold Design and Construction Fundamentals (Fundamentals of Injection Molding) (2673) (Fundamentals of injection molding series) Guns Danger & Safety 2nd Edition: An Essential Guide In Firearm Ammunition, Loading, Shooting, Storage and Safety (Guns, Guns & Ammo, Ammunition, Hunting, ... Loading, Targets, Handguns, Gun Storage)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)