



Fundamentals of Radiation and Chemical Safety

By Ilya Obodovskiy

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Fundamentals of Radiation and Chemical Safety By Ilya Obodovskiy

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

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Editorial Review

From the Back Cover

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. Its 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.

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About the Author

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.

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