

1. Record Nr.	UNINA9911019096003321
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Titolo	Radioactive Risk for Humans
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2025
ISBN	9781394332168 1394332165 9781394332175 1394332173 9781394332151 1394332157
Edizione	[1st ed.]
Descrizione fisica	1 online resource (367 pages)
Collana	ISTE Consignment Series
Altri autori (Persone)	ZerbibJean-Claude
Soggetti	Radioactivity Radiation injuries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Acronyms and Abbreviations -- Introduction -- Chapter 1. Radioactive Danger -- 1.1. Introduction -- 1.2. Radionuclides and radioelements -- 1.3. Radionuclide-related dangers -- 1.4. Elements of nuclear physics -- 1.4.1. Nuclear structure -- 1.4.2. Electrons -- 1.4.3. Stability of the atomic nucleus and nuclear reactions -- 1.4.4. Various types of ionizing radiation -- 1.4.5. Radiation properties -- 1.5. References -- Chapter 2. Radioactive Contamination of the Anthroposphere -- 2.1. Introduction -- 2.2. Sources of radioactive contamination of the anthroposphere -- 2.3. Natural radioactive contamination of the anthroposphere -- 2.3.1. Natural contamination of physical environments -- 2.3.2. Natural food contamination -- 2.3.3. Natural contamination of seafood -- 2.3.4. Natural contamination of buildings -- 2.4. Anthropogenic radioactive contamination -- 2.4.1. Anthropogenic radioactive contamination of the physical environment -- 2.4.2. Anthropogenic radioactive contamination of seafood products -- 2.4.3.

Sommario/riassunto

This book explores the risks posed by radioactivity to humans, focusing on the sources and effects of radioactive contamination. It provides an in-depth analysis of radionuclides, their dangers, and the elements of nuclear physics that contribute to these risks. The authors, Jean-Claude Amiard and Jean-Claude Zerbib, aim to educate readers on both natural and anthropogenic sources of radioactive contamination, the pathways of human exposure, and the bioaccumulation of radionuclides in the human body. The book is intended for an audience with an interest in environmental science, health risks, and nuclear safety, offering insights into the environmental and health ramifications of radioactive exposure.
