



# Radiation Protection Of Workers In Mines

**T.N. Michalakopoulos, G.N. Panagiotou**



## **Radiation Protection Of Workers In Mines:**

Radiation Protection of Workers in the Mining and Milling of Radioactive Ores International Atomic Energy Agency, 1983

*Radiation Protection of Workers in Mines: a Report of Committee 4 of the International Commission on Radiation*

*Protection* International Commission on Radiation Protection, 1986

**Radiation Protection of Workers in Mines**

International Commission on Radiological Protection. Committee 4, 1986

**ICRP Publication 47** ICRP, 2014-02-14

The purpose of this report is to describe the principles and applications of methods by which radiation hazards may be controlled in mines. Although primarily directed to the uranium mining industry, the information presented in this report may be applied in varying degree to all mines. Miners are exposed to airborne radon, thoron, and their short-lived decay products, to ore dust, and in some mines, particularly uranium and thorium mines, to external gamma and beta radiations. In general, the short-lived radon decay products present the dominant radiation risk. Radon is a member of the decay chain of uranium, which makes up about 3 ppm of the earth's crust. Consequently, radon is not limited to mines; it occurs everywhere outdoors in usually low concentrations and indoors in higher concentrations. In underground mines, the concentration of these radioactive contaminants, in the absence of adequate control measures, can reach relatively high values. The scope of this report excludes the treatment of the other hazards, mechanical and toxic, that are characteristic of all mining operations. However, the protective measures developed to control radiation exposures may influence the situation regarding other hazards.

*Occupational Radiation Protection in the Uranium Mining and Processing Industry* IAEA, 2020-06-05. This Safety Report has been developed as part of the IAEA programme on occupational radiation protection to provide for the application of its safety standards in implementing a graded approach to the protection of workers against exposures associated with uranium mining and processing. The publication describes the methods of production associated with the uranium industry and provides practical information on the radiological risks to workers in the exploration, mining, and processing of uranium. It is a compilation of detailed information on uranium mining and processing stages and techniques, general radiation protection considerations in the relevant industry, general methodologies applicable for control, monitoring, and dose assessment, exposure pathways, and radiation protection programmes for a range of commonly used mining and processing techniques.

*Radiation Protection of Workers in Mines (Superseded by ICRP Publication 65 and ICRP Publication 75)* International Commission on Radiological Protection, 1986. *ICRP Publication 47* ICRP, 2014-02-14. The purpose of this report is to describe the principles and applications of methods by which radiation hazards may be controlled in mines. Although primarily directed to the uranium mining industry, the information presented in this report may be applied in varying degree to all mines. Miners are exposed to airborne radon, thoron, and their short-lived decay products, to ore dust, and in some mines, particularly uranium and thorium mines, to external gamma and beta radiations. In general, the short-lived radon decay products present the dominant radiation risk. Radon is a member of the decay chain of uranium, which makes up about 3 ppm

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*Radiation Protection of Workers in the Mining and Milling of Radioactive Ores - 1983 Edition* International Atomic Energy Agency, 1968

**Mine Planning and Equipment Selection 2000** T.N. Michalakopoulos, G.N. Panagiotou, 2018-05-08. This text looks at mine planning and equipment and covers topics such as design and planning of surface and underground mines, geotechnical stability in surface and underground mines, and mining and the environment.

*Radiation Protection of Workers in the Mining and Milling of Radioactive Ores* International Atomic Energy Agency, International Labour Organization, World Health Organization, 1983

Radiation protection United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Energy, Nuclear Proliferation, and Federal Services, 1979

*Radiation Protection Criteria and Standards: Their Basis and Use, Hearings Before the Special Subcommittee on Radiation of ...*, 86-2 ..., May 24, 25, 26, 31; June 1, 2, and 3, 1960 United States. Congress. Atomic Energy Joint Committee, 1960

*The New Uranium Mining Boom* Broder Merkel, Mandy Schipek, 2011-10-05. The book presents the results from the Uranium Mining and Hydrogeology Conference UMH VI held in September 2011 in Freiberg, Germany. The following subjects are emphasised: Uranium Mining, Phosphate Mining, and Uranium recovery; Cleaning up technologies for water and soil; Analysis and sensor for Uranium and Radon; and Modelling.

**Radiation Protection Criteria and Standards, Their Basis and Use** United States. Congress. Joint Committee on Atomic Energy, United States. Congress. Joint Committee on Atomic Energy. Special Subcommittee on Radiation, United States. Congress. Joint Committee on Atomic Energy. Subcommittee on Legislation, 1959. Reviews the proposed joint effort of AEC General Electric Co and Consumers Power Co on the construction, operation and testing of high power density of a nuclear power plant at Big Rock Point, Mich.

*Radiation Protection* Gyoujin Cho, 2013-10-02. Radiation Protection: A Systematic Approach to Safety is a collection of papers that deals with the control, management and prevention of toxic agents. One paper presents design measures evaluated in a balanced program as a practicable method to lessen occupational radiation exposure. Another paper cites the radiation protection aspects practiced in the decommissioning of the Fuel Reprocessing Plant at Trombay, which was designed to chemically process irradiated nuclear fuel. One paper describes a methodology to evaluate a collective dose of exposure through different routes following the release of radioactive material into the atmosphere. These routes include: 1. inhalation of the material from the initial cloud or that arising from the ground; 2. external irradiation from radioactive decay of the material in the cloud or in the air; 3. and as ingestion of radionuclides transferred through the food chain. One paper compares the chemical and radiation hazards to man using an analytical model.

based on radiation biological concepts at the molecular level to show the effects of other agents The analytical model is also capable of predicting that a synergistic interaction between two different mutagenic agents can occur at the molecular level The collection will prove useful for nuclear physicists and scientists occupational health professionals and researchers in the field of nuclear medicine and engineering **Annual Report, EPA Review of Radiation Protection Activities** ,1975

An Introduction to Radiation Protection Alan Martin,Sam Harbison,Karen Beach,Peter Cole,2018-10-25 This highly readable account of the nature of the hazards presented by ionizing radiation and the methods of protection is an ideal introductory text for those new to the field and for the non specialist The seventh edition continues to cover the technical principles underlying the control of radiation hazards radiation detection and measurement and the biological effects of radiation followed by a consideration of industry specific radiation protection issues Further specialised topics include risk assessment waste management and decommissioning radiological emergencies relevant legislation and organizational issues and new to this edition environmental radiation protection *Radiation Protection* United States. Environmental Protection Agency. Office of Radiation Programs,1976 *Medical Geology of Africa* Theophilus Clavell Davies,2024-06-14 Medical Geology of Africa explores the connection between geological materials processes and the health of humans and animals The book fosters an improved understanding of the ways in which the geological environment impacts the geographical distribution of health problems and how they contribute to better diagnoses and therapy Africa s unique geoenvironmental condition gives added relevance to such studies underlining the need for geoscience and public health students and practitioners to understand new principles and applications Chapters in the book provide extended enquiry based investigations and examples that employ real geochemical datasets epidemiological records public health statistics and visualizations Provides a summary of current research on Medical Geology of Africa Identifies gaps in knowledge of the role of the geo environment in deciphering unknown aetiologies Assembles the most recent literature on current thematic issues and prescribes directions of future research **Radiation Protection Criteria and Standards: Their Basis and Use** United States. Congress. Joint Committee on Atomic Energy. Special Subcommittee on Radiation,1960

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## **Table of Contents Radiation Protection Of Workers In Mines**

1. Understanding the eBook Radiation Protection Of Workers In Mines
  - The Rise of Digital Reading Radiation Protection Of Workers In Mines
  - Advantages of eBooks Over Traditional Books
2. Identifying Radiation Protection Of Workers In Mines
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Radiation Protection Of Workers In Mines
  - User-Friendly Interface
4. Exploring eBook Recommendations from Radiation Protection Of Workers In Mines

- Personalized Recommendations
- Radiation Protection Of Workers In Mines User Reviews and Ratings
- Radiation Protection Of Workers In Mines and Bestseller Lists
- 5. Accessing Radiation Protection Of Workers In Mines Free and Paid eBooks
  - Radiation Protection Of Workers In Mines Public Domain eBooks
  - Radiation Protection Of Workers In Mines eBook Subscription Services
  - Radiation Protection Of Workers In Mines Budget-Friendly Options
- 6. Navigating Radiation Protection Of Workers In Mines eBook Formats
  - ePub, PDF, MOBI, and More
  - Radiation Protection Of Workers In Mines Compatibility with Devices
  - Radiation Protection Of Workers In Mines Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Radiation Protection Of Workers In Mines
  - Highlighting and Note-Taking Radiation Protection Of Workers In Mines
  - Interactive Elements Radiation Protection Of Workers In Mines
- 8. Staying Engaged with Radiation Protection Of Workers In Mines
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Radiation Protection Of Workers In Mines
- 9. Balancing eBooks and Physical Books Radiation Protection Of Workers In Mines
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Radiation Protection Of Workers In Mines
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Radiation Protection Of Workers In Mines
  - Setting Reading Goals Radiation Protection Of Workers In Mines
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Radiation Protection Of Workers In Mines

- Fact-Checking eBook Content of Radiation Protection Of Workers In Mines
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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