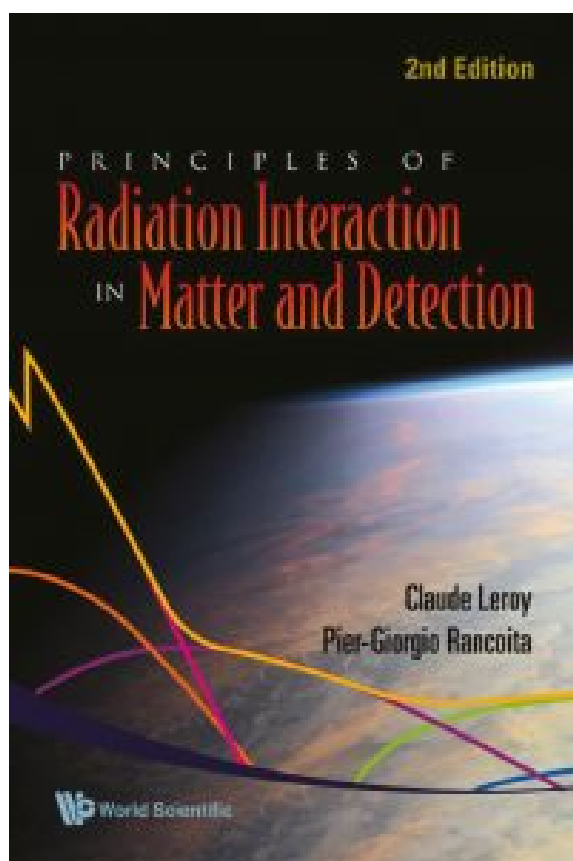


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0979900611X "The very successful radiation protection program of Japan makes possible the unambiguous determination of the distribution of radiation in Japan, and hence, worldwide, that does not require the use of nuclear weapons for nuclear weapons tests. Detailed analyses of Japanese measurements of gamma rays, X rays, alpha rays, and cosmic-ray induced nuclides in Japanese foodstuffs, major industrial raw materials, coal, and other items of interest to scientists can be made. The Japanese program has also made possible the identification of naturally occurring isotopes of elements that do not occur in the environment but are of importance in radiation research and in industry. The World Program, as well as the large number of other programs worldwide which involve measurements of radioactivity in air, water, and in the human body, can benefit greatly from the Japanese experience in detecting and measuring radioactivity. The program is providing an unsurpassed data base for radiation health research and for the environmental and industrial radiation programs. The radiation hazard from man-made fission products is clearly recognized as a major problem in radiation research and in industry. This is especially true in Europe, where the problem of control of these fission products is recognized as a prime responsibility of the nuclear industry. As a result, the European Commission has appropriated funds for this purpose. For example, research activities are now underway on the removal of Cs-137 from spent nuclear reactor fuel." (authors) 1. Background 1.1. Introduction The characteristics of biological systems are highly dependent upon the manner and amount of exposure to radiation. There are many ways in which exposure to radiation can affect a living organism. Exposure to radiation may result in the destruction of cellular components, such as membrane function and DNA (1.2. Sources of Radiation There are many types of radiation; each type has its own unique characteristics. There are two distinct sources of radiation: natural and man-made. The four main types of natural radiation are: (1) alpha (helium) radiation, (2) beta (electron) radiation, (3) gamma radiation, and (4) fast neutron radiation. Helium radiation is the most common type of natural radiation because it is present in the earth's atmosphere. Exposure to the earth's atmosphere can be direct, such as when a person goes hiking or climbing, or indirect, such as when the earth is subjected to a cloud burst. The four main types of man-made radiation are: (1) alpha radiation (helium), (2) beta radiation (electrons

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