

# Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems

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the UK Ministry of Agriculture, Fisheries and Food*



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# Radionuclide Distribution And Transport In Terrestrial And Aquatic Ecosystems Volume

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Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems: A Critical Review of Data: VOLUME FIVE. ,1984      **Radionuclide distribution and transport in terrestrial and aquatic ecosystems** P.J. Coughtrey,D. Jackson,M.C. Thorne,1984-01-01      **Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems. A Critical Review VOLUME ONE.** ,1985      **Radionuclide distribution and transport in terrestrial and aquatic ecosystems** P.J. Coughtrey,D. Jackson,M.C. Thorne,1984-01-01      **Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems: A Compendium of Data: VOLUME SIX.** ,1985      **Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems: A Critical Review of Data: VOLUME FOUR.** ,1984

**Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems A Critical Review of Data. Volume Three** ,1983      *Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems. A Critical Review of Data VOLUME TWO.* ,1983      **Radionuclides in the Environment** Clemens Walther,Dharmendra K. Gupta,2015-10-30

This book provides extensive and comprehensive information to researchers and academicians who are interested in radionuclide contamination its sources and environmental impact It is also useful for graduate and undergraduate students specializing in radioactive waste disposal and its impact on natural as well as manmade environments A number of sites are affected by large legacies of waste from the mining and processing of radioactive minerals Over recent decades several hundred radioactive isotopes radioisotopes of natural elements have been produced artificially including  $^{90}\text{Sr}$   $^{137}\text{Cs}$  and  $^{131}\text{I}$  Several other anthropogenic radioactive elements have also been produced in large quantities for example technetium neptunium plutonium and americium although plutonium does occur naturally in trace amounts in uranium ores The deposition of radionuclides on vegetation and soil as well as the uptake from polluted aquifers root uptake or irrigation are the initial point for their transfer into the terrestrial environment and into food chains There are two principal deposition processes for the removal of pollutants from the atmosphere dry deposition is the direct transfer through absorption of gases and particles by natural surfaces such as vegetation whereas showery or wet deposition is the transport of a substance from the atmosphere to the ground by snow hail or rain Once deposited on any vegetation radionuclides are removed from plants by the airstream and rain either through percolation or by cuticular scratch The increase in biomass during plant growth does not cause a loss of activity but it does lead to a decrease in activity concentration due to effective dilution There is also systemic transport translocation of radionuclides within the plant subsequent to foliar uptake leading the transfer of chemical components to other parts of the plant that have not been contaminated directly      **Chernobyl** Jim Smith,Nicholas A. Beresford,2006-08-29 As the debate about the environmental cost of nuclear power and the issue of nuclear safety continues a comprehensive assessment of the Chernobyl accident its long term environmental consequences and solutions to the problems found is timely Although many books have been published which discuss the accident itself and the immediate

emergency response in great detail none have dealt primarily with the environmental issues involved The authors provide a detailed review of the long term environmental consequences in a wide range of ecosystems many of which are only now becoming apparent They also highlight responses and counter measures to combat the environmental consequences and discuss health social psychological and economic impacts on the human population as well as the long term effects on biota

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