

1. Record Nr.	UNINA9910815555403321
Titolo	Groundwater vulnerability : chernobyl nuclear disaster // edited by Boris Faybishenko [and four others]
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , 2015 ©2015
ISBN	1-118-96220-6 1-118-96222-2 1-118-96221-4
Descrizione fisica	1 online resource (138 p.)
Collana	Special Publications ; ; 69
Disciplina	628.161
Soggetti	Groundwater - Pollution - Computer simulation Groundwater - Pollution Water - Pollution potential
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Groundwater Vulnerability: Chernobyl Nuclear Disaster; Copyright; Contents; Abstract; Introduction: Importance of Lessons Learned from Assessment of Groundwater Vulnerability at Chernobyl; Chapter 1 Methods of Groundwater Vulnerability and Protectability Assessment; 1.1. Method of Hydrogeological Zoning; 1.2. Index Methods; 1.3. Parametric Methods; 1.4. Modeling Methods; Chapter 2 Chernobyl-Born Radionuclides In Geological Environment; Chapter 3 Preferential Flow and Migration Zones in Geological Environment; 3.1. State of Problem Study; 3.2. PFMZ Classification and Occurrence 3.3. Methodological Approaches of PFMZ Study 3.4. Indicators of PFMZ Activity in Depressions; 3.5. Preliminary Evaluations of PFMZ Influence on Upper Groundwater; 3.6. Practical Importance of PFMZ; Chapter 4 Methodology of Groundwater Vulnerability and Protectability Assessment; 4.1. General Consideration; 4.2. Vulnerability and Protectability Assessment for Upper Groundwater (Unconfined Aquifer); 4.3. Vulnerability and Protectability Assessment for Confined Aquifers; Chapter 5 Groundwater Vulnerability and Protectability to Chernobyl-Born Radionuclide; 5.1. Upper Groundwater

Sommario/riassunto

The Chernobyl Nuclear Power Plant (NPP) disaster that occurred in Ukraine on April 26, 1986, was one of the most devastating in human history. Using this as a case study, the AGU monograph Groundwater Vulnerability: Chernobyl Nuclear Disaster is devoted to the problem of groundwater vulnerability, where the results of long-term field and modeling investigations of radionuclide transport in soil and groundwater, within the Ukrainian part of the Dnieper River basin (Kyiv region of Ukraine), are discussed. The authors provide a comprehensive review of existing literature on the assessment of gr
