Environmental Geology Montgomery 10th Edition

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The second edition of Restoration of Contaminated Aquifers: Petroleum Hydrocarbons and Organic Compounds incorporates the latest advances in in-situ remediation and natural attenuation, and maintains the comprehensive, accessible structure that made the first edition a classic. The new edition broadens the scope of the first by examining all forms of hydrocarbon contamination. The authors emphasize the remediation of Non-aqueous Phase Liquids (NAPLs) and, Dense Non-Aqueous Phase Liquids (DNAPLs). They also address the growing role of natural attenuation. The second edition opens with an improved introduction. There are new sections on site characterization, remediation economics and site closure. And unlike other books on this subject, the new edition offers vital managerial and project management guidance, such as, initial project planning and assessment, a look at remediation economics, and a how-to on project closure and follow-up. Since its initial publication in 1991, Restoration of Petroleum Hydrocarbon Contaminated Aquifers has been the established, invaluable reference for environmental professionals and regulators. Its sweeping, yet approachable format is inestimable in the field, in the lab, and in the policy-making arena. Restoration of Contaminated Aquifers: Petroleum Hydrocarbons and Organic Compounds will continue to be the guide to the war against petroleum contamination.

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This concise introduction to environmental science (a shorter alternative to Miller's Living in the Environment) uses basic and easily understandable scientific laws, principles, and concepts to help students understand environmental and resource problems and the possible solutions to these problems. It includes many full-color illustrations and photographs and a writing style that is clear, personal, and lively. Extensive reviewing by hundreds of experts and Miller's careful research covering more than 20,000 sources ensure the text's accuracy and currency. During the early 1970s, Miller's texts helped shape and define the environmental science course. Today, they are best sellers used by thousands of students across the country. This new edition is a major revision--the most extensive since the first edition was published. Each chapter is thoroughly revised and some detail has been added. The book's 460 illustrations are designed to present complex ideas in understandable ways and to relate learning to the real world.

Environmental Geology, tenth edition, presents the student with a broad overview of environmental geology. The text looks both at how the earth developed into its present condition and where matters seem to be moving for the future. It is hoped that this knowledge will provide the student with a useful foundation for discussing and evaluating specific environmental issues, as well as for developing ideas about how the problems should be solved.

This book is a printed edition of the Special Issue "Frontiers in Mental Health and the Environment" that was published in IJERPH

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This book comprises 96 peer-reviewed contributions submitted to the 10th ICAM Congress, held in Trondheim, Norway on 01-05 August 2011. Themes covered include: 1) Advanced materials, including high-performance technical ceramics and glasses, 2) Analytical techniques, instrumentation and automation, 3) Bio-mimetic mineral materials, medical mineralogy, 4) Construction materials including cement/SCMs, concrete, bricks, tiles, screeds, 5) Cultural heritage, stone artifacts and preservation, 6) Environment and energy mineralogy, including CO2 sequestration, 7) Geometallurgy and process mineralogy, and 8) Industrial minerals including gems, ore minerals, and mineral exploration.

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This broad overview covers the four traditional spheres of the environment: water, air, earth, and life, and introduces a fifth sphere - the "anthrosphere" - which the author defines as the sphere of human activities, especially technology, that affect the earth. Environmental Science and Technology is organized into six major areas; one for each of the five spheres and one introductory section that explains the fundamentals of chemistry, biology, biochemistry, and environmental chemistry. Throughout the book, the relationships among the five spheres and their connections to the sciences are emphasized. For better or worse, technology is closely intertwined with the other four spheres. Humans utilize resources, manufacture goods, practice agriculture, and engage in other activities that have profound effects on the planet. This unique text/reference takes a realistic look at the environmental effects of human activities, and shows how constructively directed technology can have a beneficial effect on the Earth.

Recent residential growth in unincorporated portions of San Juan County north and east of Blanding utilizes ground water derived primarily from sandstone of the undivided Dakota and Burro Canyon Formations for culinary water. The primary source of recharge to the bedrock aquifer may be seepage from unlined irrigation canals and reservoirs along the northern extent of the study area, but the relative contribution of seepage to total recharge is unknown. Potential installation of a pipe system for water delivery along the northern canal could decrease recharge from seepage and adversely affect ground-water availability at culinary wells near Blanding. The goal of this study is to characterize the geologic framework of the Dakota-Burro Canyon aquifer and adjacent units and estimate the relative amounts of artificial and natural recharge for this aquifer. The scope of work for this project included new geologic mapping based on color air photos and extensive fieldwork, new measured stratigraphic sections of the principal aquifer, and well-log analysis. Hydrologic and geologic framework data presented in this report will support informed resource management decisions and provide basic data necessary for future numerical modeling of groundwater flow in the principal aquifer. 48 pages + 4 plates

Loose Leaf Version for Environmental GeologyMcGraw-Hill Education

As the importance and dependence of specific mineral commodities increase, so does concern about their supply. The United States is currently 100 percent reliant on foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities. Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security. However, a mineral commodity's importance and the nature of its supply chain can change with time; a mineral commodity that may not have been considered critical 25 years ago may be critical today, and one considered critical today may not be so in the future. The U.S. Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security. For each mineral commodity covered, the authors provide a comprehensive look at (1) the commodity's use; (2) the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity; (3) the current status of production, reserves, and resources in the United States and globally; and (4) environmental considerations related to the commodity's production from different types of mineral deposits. The volume describes U.S. critical mineral resources in a global context, for no country can be self-sufficient for all its mineral commodity needs, and the United States will always rely on global mineral commodity supply chains. This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities.

Intended for the introductory-level college course, the principal aim of this text is to present the student with a broad overview of environmental geology. The text looks both at how the earth developed into its present condition and where matters seem to be moving for the future. It is hoped that this knowledge will provide the student with a useful foundation for discussing and evaluating specific environmental issues, as well as for developing ideas about how the problems should be solved. .

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Introduces the fundamental principles of applied Earth science needed for engineering practice, with case studies, exercises, and online solutions.

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