



ENVIRONMENTAL GEOLOGY

Enviromental Geology

Daniel T. Rogers



Environmental Geology:

Environmental Geology Dorothy Merritts, Andrew De Wet, Kirsten Menking, 1998-12-15 Using the earth systems approach Dr Merritts and her colleagues guide readers towards an understanding of Earth's varied environments the whole Earth systems connecting them and the ramifications of natural events and human interaction **Environmental Geology** Lawrence Lundgren, 1986 Very Good No Highlights or Markup all pages are intact **Living with Earth** Travis Hudson, 2016-09-17 For many students with no science background environmental geology may be one of the only science courses they ever take *Living With Earth An Introduction to Environmental Geology* is ideal for those students fostering a better understanding of how they interact with Earth and how their actions can affect Earth's environmental health The informal reader friendly presentation is organized around a few unifying perspectives how the various Earth systems interact with one another how Earth affects people creating hazards but also providing essential resources and how people affect Earth Greater emphasis is placed on environment and sustainability than on geology unlike other texts on the subject Essential scientific foundations are presented but the ultimate goal is to connect students proactively to their role as stakeholders in Earth's future *Environmental Geology* Yuan Daoxian, 2023-05-31 This volume includes all aspects of environmental geology i.e. the impact of different geological processes the geological problems in large river development trace elements and human health geology of waste disposal and environmental geology mapping *Environmental Geology* Edward A. Keller, 2000 This book offers one of the most comprehensive up to date treatments of environmental geology available from fundamental geologic principles to the specifics of environmental law and geological hazards It fully discusses both processes and environmental issues and where appropriate includes boxes with quantification of processes Case Histories and examples reflect a cross section of the United States and Special Features boxes highlight classic and recent environmental disasters Features high quality photographs and illustrations throughout Earth Materials and Processes Soils and Environment Natural Hazards An Overview Rivers and Flooding Landslides and Related Phenomena Earthquakes and Related Phenomena Volcanic Activity Coastal Hazards Water Process Supply and Use Water Pollution and Treatment Waste Management The Geologic Aspects of Environmental Health Mineral Resources and Environment Energy and Environment Global Change and Earth System Science Air Pollution Landscape Evaluation and Land Use For geologists environmental scientists and foresters *Environmental Geology* Peter Tyrell Flawn, 1970 Examples taken from U.S. projects **Environmental Geology** Matthew R. Bennett, Peter Doyle, 1997 Environmental geology brings together 3 disciplines economic geology engineering geology and applied geomorphology This book aims to show how urban growth affects human interaction with the geological environment and how environmental geologists can contribute to managing this interaction allowing both sustained development and environmental conservation **Focus on Environmental Geology** Ronald Warren Tank, 1973 **Environmental Geology** Carla W. Montgomery, 1989 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 Environmental Geology and Sustainability Daniel T. Rogers, 2025-06-02 This book explains the role of geology as the basis of sustainability It discusses how humans have altered natural balances and the unique dimensions that geology brings to understanding sustainability Focused on humans activities in shaping urban areas this book helps readers identify natural geologic risks created identify human actions that reduce or increase those risks or create new risks with unintended negative environmental consequences It provides sustainability oriented solutions so that humans can live in harmony with nature Features The first book to identify and describe geology as the foundation of sustainability Provides the history and reasoning why geology is important to achieve sustainability and environmental stewardship Goes beyond identifying natural geological and anthropogenic induced risks by providing numerous case studies and potential solutions Includes an overview of natural geologic and anthropogenic induced impacts in major cities across the world Examines where environmental regulations in many countries of the world have succeeded or failed and lists those areas where new sustainability oriented environmental regulations are needed worldwide This textbook is for senior undergraduate and graduate students taking courses in environmental geology Earth science and sustainability urban planning and environmental risk analysis It also serves as an insightful reference for professionals researchers and academics in these fields Environmental Geology Donald Robert Coates, 1981 *Issues in Environmental Geology* Matthew R. Bennett, Peter Doyle, 1998 **ENVIRONMENTAL AND ENGINEERING GEOLOGY -Volume III** Syed E. Hasan, Benedetto De Vivo, Bernhard Grasemann, Kurt Stüwe, Jan Lastovicka, Syed M. Hasan, Chen Yong, 2011-12-05 Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as engineering and environmental geology and their importance in our life It also includes a discussion of some new applications of geoscience such as medical geology forensic geology use of underground space for human occupancy and geosensors These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Environmental Geology Workbook Jack W. Travis, 2019-02-27 Environmental geologists use a wide range of geologic data to solve environmental problems and conflicts Professionals and academics in this field need to know how to gather information on such diverse conditions as soil type rock structure and groundwater flow and then utilize it to understand

geological site conditions Field surveys maps well logs bore holes ground penetrating radar aerial photos geologic literature and more help to reveal potential natural hazards in an area or how to remediate contaminated sites This new workbook presents accessible activities designed to highlight key concepts in environmental geology and give students an idea of what they need to know to join the workforce as an environmental geologist engineering geologist geological engineer or geotechnical engineer Exercises cover Preparation data collection and data analysis Descriptive and engineering properties of earth materials Basic tools used in conjunction with geoenvironmental investigations Forces operating on earth materials within the earth Inanimate forces operating on earth materials at the surface of the earth Human activities operating on earth materials Each activity encourages students to think critically and develop deeper knowledge of environmental geology

Environmental Geology Dorothy J. Merritts, Kirsten Menking, 1998 **Environmental Geology** Edward A. Keller, E. M. Burt, 1976 **Loose Leaf Version for Environmental Geology** Carla W. Montgomery, 2013-05-28 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 ENVIRONMENTAL AND ENGINEERING GEOLOGY -Volume I Syed E. Hasan, Benedetto De Vivo, Bernhard Grasemann, Kurt Stüwe, Jan Lastovicka, Syed M. Hasan, Chen Yong , 2011-12-05 Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as engineering and environmental geology and their importance in our life It also includes a discussion of some new applications of geoscience such as medical geology forensic geology use of underground space for human occupancy and geoinformatics These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs *Introduction to Environmental Geology* Edward A. Keller, 2005 This text helps non science majors develop an understanding of how geology and humanity interface It focuses on five fundamental concepts of environmental geology Human Population Growth Sustainability Earth as a System Hazardous Earth Processes and Scientific Knowledge and Values *Investigations in Environmental Geology* Duncan Foley, Garry D. McKenzie, Russell O. Utgard, 1999 Using a hands on inquiry based problem solving approach throughout this laboratory manual for environmental geology features 27 exercises based on classic and recent case histories and current events topics Reviews basic geology and math necessary for the labs and lists Internet addresses for supplemental material related to each exercise Focuses on geologic systems and human interaction with them

e g volcanos earthquakes landslides snow avalanches coastal hazards river floods with examples from throughout the United States Discusses water and soil pollution e g surface water and ground water quality processes and pollution with numerous examples from throughout the United States Illustrates the role that the geosciences play in our life support system e g groundwater overdraft and saltwater intrusion energy types conversions uses and options waste management vs waste deposit and total energy and resource flow within a system Calls for application of basic geological concepts and techniques to regional land use planning Considers future trends and global change For those interested in environmental geology applied geology or environmental science

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