

THE ROCK CYCLE

Section 3.1

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Kristen St. John, Lawrence Krissek

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Climate Change Kristen St. John, Lawrence Krissek, 2025-08-22 This open access book on climate change assesses past climatic change from a geoscience perspective and directly and effectively addresses common misconceptions on climate and climate change. A geoscience perspective on the multiple causes, rates, and consequences of climate change is essential context to assess modern climate change and our role in it as well as forecasting future climate conditions. Yet most textbooks on climate change focus only on the very recent past e.g. last century are not sufficiently engaging for non-scientists or explore paleoclimate science at a level too challenging for introductory students. In addition, a wide range of misconceptions and confusion exists in the general public about climate change. Correcting misconceptions is an essential aspect of education but educational research has shown that it is challenging to achieve. This textbook includes introductions to each thematic Part that directly identify relevant misconceptions and refute them with clear, concise messages i.e. learning goals that are grounded in science and expanded on in the supporting chapters. Such refutation-style approaches have been shown to be effective at addressing misconceptions. The book offers a clear trajectory of fundamental climate science concepts which are most beneficially combined to provide a valuable geoscience perspective on the causes, rates, and consequences of climate change. It frames the collection of climate science chapters with impactful relevant social science context starting the book with a chapter that explores the reasons behind the disconnect between the scientific and public understanding of climate change and ending the book with a discussion of the intersection of ethics and climate change. Short topical expansions or excursions are included as boxes within selected chapters. This book will serve as a basic resource for learning about the lessons that the paleoclimate record offers to evaluate the seriousness of modern and future climate change.

Groundwater Geochemistry William J. Deutsch, Randy Siegel, 2020-11-25 Groundwater Geochemistry Fundamentals and Applications to Contamination examines the integral role geochemistry plays in groundwater monitoring and remediation programs and presents it at a level understandable to a wide audience. Readers of all backgrounds can gain a better understanding of geochemical processes and how they apply to groundwater systems. The text begins with an explanation of fundamental geochemical processes followed by a description of the methods and tools used to understand and simulate them. The book then explains how geochemistry applies to contaminant mobility, discusses remediation system design, sampling program development, and the modeling of geochemical interactions. This clearly written guide concludes with specific applications of geochemistry to contaminated sites. This is an ideal choice for readers who do not have an extensive technical background in aqueous chemistry, geochemistry, or geochemical modeling. The only prerequisite is a desire to better understand natural processes through groundwater geochemistry.

Tried and True National Science

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