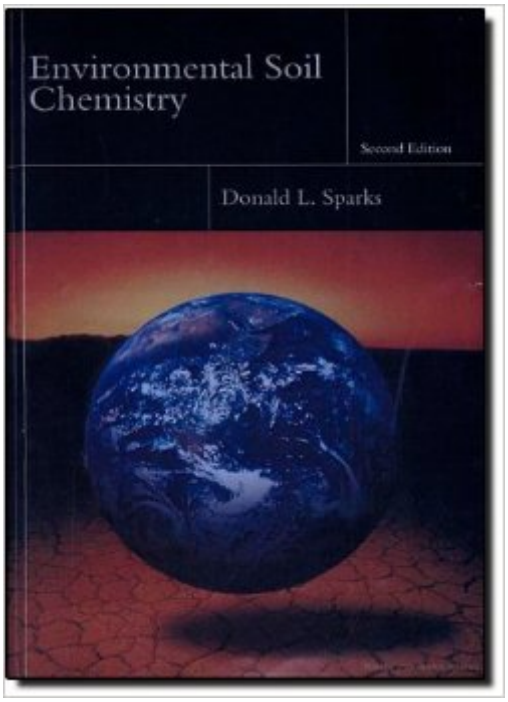
Environmental Soil Chemistry, Second Edition



Synopsis

Environmental Soil Chemistry illustrates fundamental principles of soil chemistry with respect to environmental reactions between soils and other natural materials and heavy metals, pesticides, industrial contaminants, acid rain, and salts. Timely and comprehensive discussions of applications to real-world environmental concerns are a central focus of this established text. Provides students with both sound contemporary training in the basics of soil chemistry and applications to real-world environmental concerns Timely and comprehensive discussion of important concepts including: sorption/desorption, oxidation-reduction of metals and organics, and effects of acidic deposition and salinity on contaminant reacions Boxed sections focus on sample problems and explanations of key terms and parameters Extensive tables on elemental composition of soils, rocks and sediments, pesticide classes, inorganic minerals, and methods of decontaminating soils Clearly written for all students and professionals in environmental science and environmental engineering as well as soil science

Book Information

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Customer Reviews

Professor Donald L. Sparks has managed to write an excellent and up-to-date book on important topics related to environmental soil chemistry. The book covers all the essential subjects needed for an in-depth understanding of all the complex soil processes that control the fate and transport of both inorganic and organic contaminants in the environment. The book also includes good descriptions of state-of-the-art instrumentations used in environmental soil chemistry such as

synchrotron radiation-based X-ray techniques. I use this book in my course entitled "Soil and Environmental Chemistry" and the book has the perfect length for a one semester course and the students like it. I can highly recommend this book for both undergraduate and graduate students as well as professionals.Dr. Thomas BorchAssistant Professor of Environmental Soil ChemistryDepartment of Soil and Crop SciencesColorado State UniversityFort Collins, Colorado 80523, USA

I purchased this textbook as required reading for a grad class, and barely used it. It’s a short, thin book, seems to be lacking in key topics, and the index is minimally useful. If I had it to do over, I’d purchase a more rigorous soil chem textbook.

I still need more time to read it. But the contents are a little different from what I have expected. It did not discuss more about the chemistry of elements.

Soil Chemistry by sparks is a strong text. It covers the essentials of soil chemistry and would be an excellent reference book, as it is concise.

Guide to Ace General Chemistry I: (General Chemistry Study Guide, General Chemistry Review) Introduction to Environmental Soil Physics Beyond Resource Wars: Scarcity, Environmental Degradation, and International Cooperation (Global Environmental Accord: Strategies for Sustainability and Institutional Innovation) Environmental Engineering and Sanitation (Environmental Science and Technology: A Wiley-Interscience Series of Texts and Monographs) The Nature of Gold: An Environmental History of the Klondike Gold Rush (Weyerhaeuser Environmental Books) Environmental Laws: Summaries of Major Statutes Administered by the Environmental Protection Agency The Sustainability Handbook: The Complete Management Guide To Achieving Social, Economic and Environmental Responsibility (Environmental Law Institute) Environmental Health: From Global to Local (Public Health/Environmental Health)