

# Soil and Water Chemistry: An Integrative Approach


By Michael E. Essington




**Soil and Water Chemistry: An Integrative Approach** By Michael E. Essington

Traditionally the study of chemical principles as they relate to soil has been limited to the field of agronomics. **Soil and Water Chemistry: An Integrative Approach**, stands alone because it balances agricultural and environmental perspectives in its analysis of the chemical properties and processes that affect organic and inorganic soil substances.

Written for soil science practitioners, researchers, and students, this book provides a comprehensive treatment of soil composition and reactions. Topics include: clay mineralogy, soil organic matter, mineral weathering and stability, ion speciation, solubility, ion exchange, adsorption, oxidation-reduction, acidity, alkalinity, and salinity. Each chapter concludes with numerous exercises that emphasize concepts and have practical, real-world applications.

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### **Editorial Review**

#### Review

Overall, this book comprehensively presents the chemical and mineralogical characteristics and processes of soils. The breadth and depth of coverage ... make this book one of the most thorough available. Numerous figures and tables help simplify the complex principles and reactions described. ... The book will ... be a comprehensive source of information for researchers and professionals [dealing with] the effect of soil-water chemistry, interactions, and processes that impact the environment. As usual, the publishers have done an excellent job of editing and preparing a high quality product.

- Journal of Environmental Quality, Vol. 33, No. 4, July/Aug. 2004

I congratulate the author on producing an outstanding up-to-date book that sets a higher standard for future environmental science textbooks. I would highly recommend anyone who is interested in the area of soil and water chemistry to purchase this book.

- Vadose Zone Journal, May 2005

Dr. Essington's book will be an outstanding choice as a textbook for those of us who teach soil chemistry, and will be an excellent resource for anyone working in the area of environmental soil science. He should be congratulated for producing a thorough, well-written book.

- Dr. George F. Vance

J.E. Warren Distinguished Professor of Energy and the Environment  
Department of Renewable Resources  
University of Wyoming, Laramie

I continue to be impressed by the quality of writing in this book. The author has a superb command of the subject matter and presents many difficult concepts in an easily understood manner. Material is covered in as complete a fashion as I have seen in any other soil chemistry textbook.

- Dr. Gary Pierzynski, Kansas State University

I am so glad to see specific chemical reactions to describe the chemistry behind common methods. This is where I think Essington's textbook is really going to excel. ...this book should also serve as an excellent 'working reference' for geochemists, environmental scientists, and consultants.

- Dr. April L. Ulery

New Mexico State University, Las Cruces

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#### **Gabriel Cleveland:**

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