Soil and Environmental Chemistry. Edition No. 2

Description: Soil and Environmental Chemistry, Second Edition, offers a holistic, practical approach to the application of environmental chemistry to soil science that includes over 100 spreadsheet files that supplement the text as a means of migrating problem-solving from calculator-based to spreadsheet-based.

With an expanded set of problems and solutions and added coverage of key topics such as sample collection, water chemistry simulation, and soil carbon cycle models, this updated edition is a must-have reference for soil scientists in environmental chemistry.

Designed to equip the reader with the chemistry knowledge and problem-solving skills necessary to validate and interpret data, this book combines valuable soil chemistry concepts into the big picture.

- Includes additional pedagogy, such as key terms and real-world scenarios
- Supplemented by over 100 spreadsheets to migrate readers from calculator-based to spreadsheet-based problem-solving that are directly linked from the text
- Includes example problems and solutions to enhance understanding
- Significantly revised chapters link to a companion site that reflects advances in the field, including expanded coverage of such topics as sample collection, soil moisture, soil carbon cycle models, water chemistry simulation, alkalinity, and redox reactions

Contents: Elements: Their Origin and Abundance

Soil Moisture and Hydrology

Natural Organic Matter and Humic Colloids

Clay Mineralogy and Clay Chemistry

Ion Exchange

Water Chemistry

Acid-Base Chemistry

Redox Chemistry

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