



Environmental Chemistry

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Condition: New. Publisher/Verlag: Springer, Berlin | Microscale Laboratory Experiments | This book presents chemical analyses of the most pressing waste, pollution, and resource problems for the undergraduate or graduate student. Its distinctive holistic approach provides a solid introduction to theory as well as a practical laboratory manual detailing beginning and advanced experimental applications. It presents laboratory procedures at microscale conditions, for minimum waste and maximum economy. | Experiments.- Water Characterization.- Dissolved Oxygen in Water.- Alkalinity and Buffering Capacity of Water.- Aqueous Carbonate Equilibria and Water Corrosiveness.- The Point of Zero Charge of Oxides.- Experimental Transitions in E vs pH (or Pourbaix) Diagrams.- Air Oxidation of Metal Ions.- Photoassisted Reduction of Metal Complexes.- Anionic Detergents and o-Phosphates in Water.- Halogenated Hydrocarbons and the Ozone Layer Depletion.- Acid Mine (or Acid Rock) Drainage.- Electrochemical Treatment of Gas Pollutants.- Electrochemical Treatment of Liquid Wastes.- Electrochemical Treatment of Polluted Soils.- Removal of Nitric Oxide by Complex Formation.- Photocatalytic Remediation of Pollutants.- Chemical Mineralization of Pollutants Through the Fenton Reaction.- Production and Analysis of Chloramines.- Production and Analysis of Chlorine Dioxide.- Metal Ion Recovery By Cementation.- Green Chemistry: The Recovery and Reuse of Sulfur Dioxide (Obendrauf's Method).- Microorganisms in Soil, Water, and Air.- Toxicity Assay...



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