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2.6.4. Biological Methods for Air Pollution Assessment2.7. Effects of Air Pollutants; 2.7.2. Classical and Photochemical Smogs; 2.7.1. Indoor Air Pollution; 2.7.3. Acid Rain; 2.7.4. Arctic Haze; 2.7.5. Human Effects of Particulate Exposure; 2.7.6. Climatic Effects; 2.7.7. Stratospheric Ozone; Review Questions; Further Reading; References; Chapter 03 Air Pollution Control Priorities and Methods; 3.1. Air Pollutant Inventories; 3.2. Automotive Emission Control; 3.3. Air Pollutant Weighting; 3.4. Methods and Limitations of Air Pollutant Dispersal; 3.5. Air Pollution Abatement by Containment
3.5.1. Precombustion Removal Methods3.6. Postcombustion Emission Control; 3.6.1. Particulate and Aerosol Collection Theory; 3.6.2. Particulate and Aerosol Collection Devices; 3.6.3. Hydrocarbon Emission Control; 3.6.4. Control of Sulfur Dioxide Emissions; 3.6.5. Control of Nitrogen Oxide Emissions; 3.6.6. Carbon Dioxide Emission Abatement; 3.6.7. Abatement of Methane Losses; 3.6.8. Halocarbon Loss Abatement; Review Questions; Further Reading; References; Chapter 04 Water Quality Measurement; 4.1. Water Quality and Supply Overview; 4.2. Water Quality Criteria and their Measurement
4.3. Specifying Concentrations in Water4.4. Suspended Solids; 4.5. Dissolved Solids; 4.6. Total Solids or Residue Analysis; 4.7. Dissolved Oxygen Content; 4.8. Relative Acidity and Alkalinity; 4.9. Toxic Substances; 4.10. Microorganisms; 4.11. Temperature; 4.12. Oxygen Demand; 4.12.1. Biochemical Oxygen Demand; 4.12.2. Chemical Oxygen Demand; 4.12.3. Total Organic Carbon And Oxygen Demand; 4.13. Biological Indicators; Review Questions; Further Reading; References; Chapter 05 Raw Water Processing and Wastewater Treatment; 5.1. Water Quality Related to End Uses
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Sommario/riassunto

The Handbook of Chemical Technology and Pollution Control (3rd Edition) provides a detailed review of the chemistry and operating conditions of many of the present large-scale chemical processes important to our economy and high standards of living. The processes that could lead to emissions affecting our air, soil, and water are considered, together with ways in which it may be possible to reduce or eliminate these pollutants. Focusing on cleaner production concepts without neglecting 'end of pipe' measures. With an increase in the awareness of corporate and social responsibility among

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