

Modern Biogeochemistry

[DOWNLOAD HERE](#)

1: Introduction. 1. The Basic Concepts and Approaches to the Subject. 2. Historical Development of Biogeochemistry. 2: Evolutionary Biogeochemistry. 1. Introduction. 2. Origin of Elements. 3. Earth Evolution. 4. Origin of Life. 5. Evolution of Biogeochemical Cycles. 6. Role of Biogeochemical Cycles in Biogenic Deposition Formation. 3: Biogeochemical Cycling of Macroelements. 1. Introduction to Biogeochemical Cycling of Elements. 2. Biogeochemistry Cycle of Carbon. 3. Biogeochemistry Cycle of Nitrogen. 4. Biogeochemistry Cycle of Phosphorus. 5. Biogeochemistry Cycle of Sulfur. 6. Biogeochemical Cycle of Silicon. 7. Biogeochemistry Cycle of Calcium. 4: Biogeochemical Cycling of Trace Elements. 1. Biogeochemistry of Copper. 2. Biogeochemistry of Zinc. 3. Biogeochemistry of Selenium. 4. Biogeochemistry of Boron. 5. Biogeochemistry of Molybdenum. 5: Interactions of Biogeochemical Cycles. 1. Stoichiometric Aspects of Nutrient Uptake and Nutrient Limitation of Living Matter Production. 2. Stoichiometric Aspects of Nutrient Recycling. 3. Thermodynamics of Bacterial Energetics. 4. Biogeochemical Modelling. 6: Regional Biogeochemistry. 1. Biogeochemistry of Arctic Ecosystems. 2. Biogeochemistry of Tundra Ecosystems. 3. Biogeochemistry of Boreal and Sub-Boreal Forest Ecosystems. 4. Biogeochemistry of Steppes and Deserts. 5. Biogeochemistry of Tropical Ecosystems. 7: Biogeochemical Mapping. 1. Characterization of Soil-Biogeochemical Conditions in the World's Terrestrial Ecosystems. 2. Biogeochemical Classification and Simulation of Biosphere Organization. 3. Biogeochemical Mapping on Continental, Regional and Local Scales. 8: Environmental Biogeochemistry. 1. Environmental Biogeochemistry of Nitrogen. 2. Environmental Biogeochemistry of Mercury. 3. Environmental Biogeochemistry of Lead. 9: Human Biogeochemistry. 1. Biogeochemical and Physiological Peculiarities of Human Population Health. 2. Human Health Indices in Technogenic and Agrogenic Biogeochemical Provinces. 10: Biogeochemical Standards. 1. Critical Load Concept for Impact Oriented Emission Abatement Strategy of Sulfur and Nitrogen Acid-Forming and Eutrophication Compounds. 2. Calculation of Critical Loads for Heavy Metals at Terrestrial and Aquatic Ecosystems. 3. Examples of Critical Loads Calculations for Heavy Metals. 11: Future Trends in Modern Biogeochemistry. References. Index. EAN/ISBN : 9781402045868 Publisher(s): Springer Netherlands Discussed keywords:

Biochemie, Geochemie Format: ePub/PDF Author(s): Bashkin, Vladimir N.

[DOWNLOAD HERE](#)

Similar manuals:

[Modern Biogeochemistry](#)