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Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Part I Introduction; Chapter 1 Wetlands: Human Use and Science; Human History and Wetlands; Literary References to Wetlands; Wetland Science and Wetland Scientists; Wetland Managers and Wetland Management; Chapter 2 Wetland Definitions; Wetlands in the Landscape; Wetland Common Terms; Formal Wetland Definitions; Legal Definitions; Choice of a Definition; Chapter 3 Wetlands of the World; The Global Extent of Wetlands; Regional Wetlands of the World; Part II The Wetland Environment; Chapter 4 Wetland Hydrology; Importance of Hydrology in Wetlands Wetland HydroperiodWetland Water Budget; Precipitation; Surface Flow; Groundwater; Evapotranspiration; Tides; Seiches; Effects of Hydrology on Wetland Function; Techniques for Wetland Hydrology Studies; Chapter 5 Wetland Soils; Types and Definitions; Organic Wetland Soil; Mineral Wetland Soil; Reduction/Oxidation in Wetland Soil; Chapter 6 Wetland Biogeochemistry; The Nitrogen Cycle; Iron and Manganese Transformations; The Sulfur Cycle; The Carbon Cycle; The Phosphorus Cycle; Water Chemistry; Nutrient Budgets of Wetlands; Chapter 7

## Wetland Vegetation and Succession

Vascular Plant Adaptations to Waterlogging and Flooding; Wetland Succession; Part III Wetland Ecosystems; Chapter 8 Tidal Marshes; Tidal Salt Marshes; Tidal Freshwater Wetlands; Chapter 9 Mangrove Swamps; Geographical Extent; Hydrogeomorphology; Soils and Salinity; Vegetation; Consumers; Ecosystem Function; Chapter 10 Freshwater Marshes; Hydrology; Biogeochemistry; Vegetation; Consumers; Ecosystem Function; Chapter 11 Freshwater Swamps and Riparian Ecosystems; Geographic Extent; Geomorphology and Hydrology; Biogeochemistry; Vegetation; Consumers; Ecosystem Function; Chapter 12 Peatlands  
Geographic Extent; Hydrology and Peatland Development; Classification of Peatlands; Vegetation; Consumers; Ecosystem Function; Part IV Traditional Wetland Management; Chapter 13 Wetland Classification; Wetland Classifications; Wetland Remote Sensing and Inventory; Chapter 14 Human Impacts and Management of Wetlands; Early History of Wetland Management; Wetland Drainage History in the United States; Wetland Alteration; Wetland Management by Objective; Chapter 15 Wetland Laws and Protection; Legal Protection of Wetlands in the United States; International Wetland Conservation  
Part V Ecosystem Services; Chapter 16 Wetland Ecosystem Services; Wetland Ecosystem Services; Quantifying Ecosystem Services; Chapter 17 Wetlands and Climate Change; Climate Change; Wetlands in the Global Carbon Cycle; Effects of Climate Change on Wetlands; Chapter 18 Wetland Creation and Restoration; Mitigating Wetland Habitat Loss; Agricultural Land Restoration; Forested Wetland Restoration; Hydrologic Restoration of Wetlands; Peatland Restoration; Coastal Wetland Restoration; Wetland Creation and Restoration Techniques; Estimating Success; Summary Principles  
Chapter 19 Wetlands and Water Quality

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### Sommario/riassunto

The single most important book on wetlands, newly expanded and updated Wetlands is the definitive guide to this fragile ecosystem, providing the most comprehensive coverage and in-depth information available in print. Recently updated and expanded, this latest edition contains brand new information on Wetland Ecosystem Services and an updated discussion on Wetland, Carbon, and Climate Change and Wetland Creation and Restoration. Due to popular demand, the authors have brought back five streamlined chapters on wetland ecosystems that had been removed from previous editions, and provided more ro

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