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Completely revised and updated, Treatment Wetlands, Second Edition is still the most comprehensive resource available for the planning, design, and operation of wetland treatment systems. The book addresses the design, construction, and operation of wetlands for water pollution control. It presents the best current procedures for sizing these systems, and describing the intrinsic processes that combine to quantify performance. The Second Edition covers: New methods based on the latest research Wastewater characterization and regulatory framework analyses leading to detailed design and economics State-of-the-art procedures for analyzing hydraulics, hydrology, substrates and wetlands biogeochemistry Definition of performance expectations for traditional pollutants such as solids, oxygen demand, nutrients and pathogens, as well as for metals and a wide variety of individual organic and inorganic chemicals Discussion of methods of configuration, construction, and vegetation establishment and startup considerations Ancillary benefits of human use and wildlife habitat Specific examples of numerous applications Extensive reference base of current information The book provides a complete reference that includes: detailed information on wetland ecology, design for consistent performance, construction guidance and operational control through effective monitoring. Case histories of operational wetland treatment systems illustrate the variety of design approaches presented allowing you to tailor them to the needs of your wetlands treatment projects. The sheer amount of information found in Treatment Wetlands, Second Edition makes it the resource you will turn to again and again.

This outstanding new book examines the planning, design, construction, and operation of wetlands used for water quality treatment. Treatment Wetlands is the first comprehensive book to systematically describe all aspects of this new technology. Topics include all major wetland configurations, wastewater sources, and combinations of climatic conditions. This complete reference contains detailed information on wetland ecology, wetland water quality, selection of appropriate technology, design for consistent performance, construction guidance, and operational control through effective monitoring. Design approaches that can be tailored to specific wetland treatment projects are also included. Rule-of-thumb methods, regression-based empirical design approaches, and rational methods are explained facilitating wetland design based on multi-parameter input conditions.

Contents: Overview of Treatment Wetlands; Fundamentals of Treatment Wetlands; Horizontal Flow Wetlands; Vertical Flow Wetlands; French Vertical Flow Wetlands; Intensified and Modified Wetlands; Free Water Surface Wetlands; Other Applications; Additional Aspects.

Both practical and theoretical, this book provides the basic principles of soil chemistry, hydrology, wetland ecology, microbiology, vegetation and wildlife as a sound introduction to this innovative technology to treat toxic wastewaters and sludges. The use of wetlands for acid mine drainage, and metals removal in municipal, urban runoff, and industrial systems is discussed. Case histories are also presented, demonstrating specific types of constructed wetlands and applications to municipal wastewater, home sites, coal and non-coal mining, coal-fired electric power plants, chemical and pulp industry, agriculture, landfill leachate, and urban stormwater. Construction and management guidelines are clearly explained, providing information on applicable policies and regulations, siting and construction, and operations and monitoring of constructed wetlands treatment systems. Recent theoretical and empirical results from operating systems and research facilities, including such new applications as nutrient removal from eutrophic lakes and urban stormwater treatment within highway rights-of-way, are included. This book is an ideal resource for wastewater treatment plants, consulting engineers, federal and state regulators, industrial environmental managers, municipalities, environmental health professionals, and ecologists.

Wetland Systems to Control Urban Runoff integrates natural and constructed wetlands, and sustainable drainage techniques into traditional water and wastewater systems used to treat surface runoff and associated diffuse pollution. The first part of the text introduces the fundamentals of water quality management, and water and wastewater treatment. The remaining focus of the text is on reviewing treatment technologies, disinfection issues, sludge treatment and disposal options, and current case studies related to constructed wetlands applied for runoff and diffuse pollution treatment. Professionals and students will be interested in the detailed design, operation, management, process control and water quality monitoring and applied modeling issues. * Contains a comprehensive collection of timely, novel and innovative research case studies in the area of wetland systems applied for the treatment of urban runoff * Demonstrates to practitioners how natural and constructed wetland systems can be integrated into traditional wastewater systems, which are predominantly applied for the treatment of surface runoff and diffuse pollution * Assesses the design, operation, management and water treatment performance of sustainable urban drainage systems including constructed wetlands

Calling for ecologically and economically sound wastewater treatment systems, the authors of Natural Wastewater Treatment Systems explore the use of wetlands, sprinkler or deep irrigation, groundwater recharge, and other natural systems as sustainable methods for the treatment and management of wastewater. Based on work by prominent experts in natural waste treatment, this text provides a thorough explanation on how soil and plants can successfully sustain microbial populations in the treatment of wastewater. Determining that natural systems cost less to construct and operate, and require less energy than mechanical treatment alternatives, this book also explains how these processes produce lower amounts of residual solids, and use little or no chemicals. What's New in the Second Edition: This revised edition includes current design and regulatory and operational developments in the natural wastewater treatment field. It provides detailed examples and analyses along with significant operational data in each chapter. It also considers how processes provide passive treatment with a minimum of mechanical elements, and describes new approaches to partially mixed ponds, including dual-powered aeration ponds. Introduces the planning procedures and treatment mechanisms responsible for treatment in ponds, wetlands, land application, and soil absorption systems Provides new case studies of constructed wetlands and water reuse systems Presents design criteria and methods of pond treatment and pond effluent upgrading Describes constructed wetlands design procedures, process applications, treatment performance data, and land treatment concepts and design equations Includes information on constituents of emerging concern (CEC) and their fate in natural systems The text discusses wastewater pond systems, free water surface constructed wetlands, subsurface and vertical flow constructed wetlands, land treatment, sludge management, and onsite wastewater systems. It describes residuals and biosolids management, including nitrogen removal pretreatment methods, and uses U.S. customary and metric units in all chapters. It presents case studies of new applications of natural systems and includes worked examples of design equations for ponds and land treatment. It also provides a biosolids regulatory update from a top EPA scientist, and algae reduction technologies for ponds and wetlands. Designed for practicing wastewater engineers and scientists involved in the planning, design, and operation of ponds, wetlands, land treatment, biosolids, and onsite soil-based treatment systems, the book integrates many natural treatment systems into one single source.

Understand the current concept of wetland and methods for identifying, describing, classifying, and delineating wetlands in the United States with Wetland Indicators - capturing the current state of science's role in wetland recognition and mapping. Environmental scientists and others involved with wetland regulations can strengthen their knowledge about wetlands, and the use of various indicators, to support their decisions on difficult wetland determinations. Professor Tiner primarily focuses on plants, soils, and other signs of wetland hydrology in the soil, or on the surface of wetlands in his discussion of Wetland Indicators. Practicing - and aspiring - wetland delineators alike will appreciate Wetland Indicators' critical insight into the development and significance of hydrophytic vegetation, hydric soils, and other factors. Features Color images throughout illustrate wetland indicators. Incorporates analysis and coverage of the latest Army Corps of Engineers delineation manual. Provides over 60 tables, including extensive tables of U.S. wetland plant communities and examples for determining hydrophytic vegetation.

Creating Freshwater Wetlands, Second Edition clearly demonstrates the step-by-step processes required to restore or create freshwater wetlands. It presents practical advice on choosing sites, getting help, attracting and stocking wildlife, selecting plants, and wetland operation and maintenance. This is an excellent book on one of the most fascinating ecosystems on the planet.

This book explains how with careful planning and design, the functions and performance of constructed wetlands can provide a huge range of benefits to humans and the environment. It documents the current designs and specifications for free water surface wetlands, horizontal and vertical subsurface flow wetlands, hybrid wetlands and bio retention basins; and explores how to plan, engineer, design and monitor these natural systems. Sections address resource management (landscape planning), technical issues (environmental engineering and botany), recreation and physical design (landscape architecture), and biological systems (ecology). Site and municipal scale strategies for flood management, storm-water treatment and green infrastructure are illustrated with case studies from the USA, Europe and China, which show how these principles have been put into practice. Written for upper level students and practitioners, this highly illustrated book provides designers with the tools they need to ensure constructed wetlands are sustainably created and well manage

Artificial or constructed wetlands are an emerging technology particularly for tropical areas with water scarcity. For big cities, the sustainable management of water resources taking into account proper use is always challenging. The book presents case studies illustrating the above. As plants and microorganisms are a fundamental part of the correct functioning of these systems, their contribution to the degradation of the organic matter and to the removal and transformation of the pollutant compounds present in the wastewaters is also a highlight of this book.