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KEY=OH - GILLIAN TESSA

State Priority Lists for Construction Grants for Wastewater Treatment Works

Monthly Awards for Construction Grants for Wastewater Treatment Works

Sensor Technology for Water Quality Monitoring

XRF Spectroscopy

International Water Assn *The main objective of this project is to demonstrate that the technology of on line monitoring of waterborne metals by X-ray Fluorescence (XRF) at part per billion (ppb) and sub-ppb levels, which has been successfully applied in the power industry for several years, can be applied to water and wastewater treatment plants. A specially designed on line XRF monitor was assembled, tested in the laboratory, and used at the City of Alliance, Ohio Wastewater and Water Treatment Plants from July 2002 until March 2004. At various times through this project, the metals monitored included iron, copper, chromium, nickel, zinc, manganese, arsenic, cadmium, mercury and lead. The results indicate that XRF on line monitoring of waterborne metals at trace levels is feasible for the influent and effluent of water treatment plants, and the effluent of wastewater treatment plants.*

Notification to EPA of Hazardous Waste Activities

Region 5

Advanced Industrial Wastewater Treatment and Reclamation of Water

Comparative Study of Water Pollution Index during Pre-industrial, Industrial Period and

Prospect of Wastewater Treatment for Water Resource Conservation

Springer Nature

Selected Water Resources Abstracts

Constructed Wetlands for Industrial Wastewater Treatment

John Wiley & Sons *A groundbreaking book on the application of the economic and environmentally effective treatment of industrial wastewater Constructed Wetlands for Industrial Wastewater Treatment contains a review of the state-of-the-art applications of constructed wetland technology for industrial wastewater treatment. This green technology offers many economic, environmental, and societal advantages. The text examines the many unique uses and the effectiveness of constructed wetlands for the treatment of complex and heavily polluted wastewater from various industrial sources. The editor — a noted expert in the field — and the international author team (93 authors from 22 countries) present vivid examples of the current state of constructed wetlands in the industrial sector. The text is filled with international case studies and research outcomes and covers a wide range of applications of these sustainable systems including facilities such as the oil and gas industry, agro-industries, paper mills, pharmaceutical industry, textile industry, winery, brewery, sludge treatment and much more. The book reviews the many system setups, examines the different removal and/or transformational processes of the various pollutants and explores the overall effectiveness of this burgeoning technology. This important resource: Offers the first, groundbreaking text on constructed wetlands use for industrial wastewater treatment Provides a single reference with summarized information and the state-of-the-art knowledge of the use of Constructed Wetlands in the industrial sector through case studies, research outcomes and review chapters Covers a range of industrial applications such as hydrocarbons/oil and gas industry, food and beverage, wood and leather processing, agro-industries, pharmaceuticals and many others Includes best practices drawn by a collection of international case studies Presents the latest technological developments in the industry Written for civil and environmental engineers, sustainable wastewater/water managers in industry and government, Constructed Wetlands for Industrial Wastewater Treatment is the first book to offer a comprehensive review of the set-up and effectiveness of constructed wetlands for a wide range of industrial applications to highlight the diverse economic and environmental benefits this technology brings to the industry.*

Sludge Treatment and Disposal

IWA Publishing *Sludge Treatment and Disposal is the sixth volume in the series Biological Wastewater Treatment. The book covers in a clear and informative way the sludge characteristics, production, treatment (thickening, dewatering, stabilisation, pathogens removal) and disposal (land application for agricultural purposes, sanitary landfills, landfarming and other methods). Environmental and public health issues are also fully described. About the series: The series is based on a highly acclaimed set of best selling textbooks. This international version is comprised by six textbooks giving a state-of-the-art presentation of the science and technology of biological wastewater treatment. Other titles in the series are: Volume 1: Waste Stabilisation Ponds; Volume 2: Basic Principles of Wastewater Treatment; Volume 3: Waste Stabilization Ponds; Volume 4: Anaerobic Reactors; Volume 5: Activated Sludge and Aerobic Biofilm Reactors*

Use of Reclaimed Water and Sludge in Food Crop Production

National Academies Press *This book reviews the practice of reclaiming treated municipal wastewater for agricultural irrigation and using sewage sludge as a soil amendment and fertilizer in the United States. It describes and evaluates treatment technologies and practices; effects on soils, crop production, and ground water; public health concerns from pathogens and toxic chemicals; existing regulations and guidelines; and some of the economic, liability, and institutional issues. The recommendations and findings are aimed at authorities at the federal, state, and local levels, public utilities, and the food processing industry.*

Fort Kamehameha Outfall Replacement for Wastewater Treatment Plant

Environmental Impact Statement

Airport Revenue Diversification

Transportation Research Board *TRB's Airport Cooperative Research Program (ACRP) Synthesis 19: Airport Revenue Diversification explores the different sources of revenue for airports, separating core aeronautical revenue from ancillary revenues. The report also examines ways that airports have diversified activities and highlights the challenges that arise when non-aeronautical activity is proposed on land that is subject to Federal Aviation Administration grants obligations and assurances.*

Biological Wastewater Treatment and Resource Recovery

BoD – Books on Demand *Biological treatment of wastewater is a low-cost solution for remediation of wastewater. This book focuses on the bioremediation of wastewater, its management, monitoring, role of biofilms on wastewater treatment and energy recovery. It emphasizes on organic, inorganic and micropollutants entering into the environment after conventional wastewater treatment facilities of industrial, agricultural and domestic wastewaters. The occurrence of persistent pollutants poses deleterious effects on human and environmental health. Simple solution for recovery of energy as well as water during biological treatment of wastewater is a viable option. This book provides necessary knowledge and experimental studies on emerging bioremediation processes for reducing water, air and soil pollution.*

Catalog of Information on Water Data

Index to water quality stations

Selected Water Resources Abstracts

A Semimonthly Publication of the Water Resources Scientific Information Center, Office of Water Research and Technology, U.S. Department of the Interior

An Evaluation of Two Conceptual Wastewater Treatment Schemes for a Lurgi-based Indirect Coal Liquefaction Plant

Operation of Wastewater Treatment Plants

A Field Study Training Program

Agriculture, Rural Development, Food and Drug Administration, and related agencies appropriations bill, 2004

report together with additional views (to accompany H.R. 2673).

Integrated Solutions for Energy & Facility Management

CRC Press *1-Energy Management2-Geoexchange3-Energy Service & E-Commerce4-Combined Heat & Power/Cogeneration5-Environmental Technology6-Plant & Facilities Management7-Facilities E-Solutions*

Wastewater Treatment and Technology

Thomas Telford *Wastewater Treatment and Technology examines the processes available for the various stages of treatment of wastewater, beginning with the preliminary processes of screening, grit removal and storm water separation and ending with tertiary treatment and sludge disposal. There is considerable emphasis on the biological processes that are used for the oxidation of BOD and the removal of nitrogen and phosphorous. Options for the treatment of industrial wastewater, including anaerobic digestion, physico-chemical processes and enhanced oxidation are also discussed. Wastewater Treatment and Technology concludes by examining what the future may bring and how this may affect the technology of wastewater treatment. Wastewater treatment and technology will be invaluable for the engineer or technologist who is beginning a career in wastewater treatments as well as for established engineers who want to refresh their memories.*

Hospital Wastewaters

Characteristics, Management, Treatment and Environmental Risks

Springer *This volume addresses hospital effluents in terms of their composition and the management and treatment strategies currently (being) adopted around the globe. In this context, one major focus is on pharmaceutical compounds: their observed concentration range, ecotoxicological effects, and the removal efficiency achieved by the different technologies. Another focus is on management strategies (dedicated hospital wastewater treatment, or a combined approach also involving urban wastewater) and currently adopted treatments to reduce the released pollutant load. Innovative and promising technologies under investigation at the lab and pilot scale are presented. A discussion of remaining knowledge gaps and future research requirements rounds out the coverage. The respective chapters, written by experts in the different fields, provide useful information for a broad audience: scientists involved in the management and treatment of hospital effluents and wastewater containing micropollutants, administrators and decision-makers, legislators involved in the authorization and management of healthcare structure effluents, and environmental engineers involved in the design of wastewater treatment plants, as well as newcomers and students interested in these issues.*

Practical Wastewater Treatment

John Wiley & Sons *Practical techniques for handling industrial waste and designing treatment facilities Practical Wastewater Treatment is designed as a teaching and training tool for chemical, civil, and environmental engineers. Based on an AIChE training course, developed and taught by the author, this manual equips readers with the skills and knowledge needed to design a wastewater treatment plant*

*and handle various types of industrial wastes. With its emphasis on design issues and practical considerations, the manual enables readers to master treatment techniques for managing a wide range of industrial wastes, including oil, blood and protein, milk, plating, refinery, and phenolic and chemical plant wastes. A key topic presented in the manual is biological modeling for designing wastewater treatment plants. The author demonstrates how these models lead to both more efficient and more economical plants. As a practical training tool, this manual contains a number of features to assist readers in tackling complex, real-world problems, including: * Examples and worked problems throughout the manual demonstrate how various treatment plants and treatment techniques work * Figures and diagrams help readers visualize and understand complex design issues * References as well as links to online resources serve as a gateway to additional information * Practical design hints, stemming from the author's extensive experience, help readers save time and avoid unwanted and expensive pitfalls * Clear and logically organized presentation has been developed and refined based on an AIChE course taught by the author in the United States, Mexico, and Venezuela Whether a novice or experienced practitioner, any engineer who deals with the treatment of industrial waste will find a myriad of practical advice and useful techniques that they can immediately apply to solve problems in wastewater treatment.*

EPA Reports Bibliography

A Listing of EPA Reports Available from the National Technical Information Service as of April 1, 1973

STAR

Algal Technologies for Wastewater Treatment and Resource Recovery

IWA Publishing *Over 80% of globally produced wastewater receives little or no treatment before it is disposed into the environment. Therefore, it is urgent to develop new wastewater treatment technologies that are sustainable in the broad sense of the word, i.e. not only produce high quality effluents, but also minimise energy expenses, recover energy and nutrients, and apply technology that is appropriate in relation to the availability of skilled personnel. This book compiles the main outcomes of recent efforts to improve the design of waste stabilisation ponds, and confirms the superior performance of high rate algal ponds as a result of process intensification. Anaerobic digestion devoted to biogas production continues to be the preferred strategy for the energy valorisation of the algal biomass, co-digestion with multiple high C/N ratio substrates gathering significant attention over the past years. The potential of algal biomass as a biosorbent for heavy metal removal (Cu, Ni, F) maintains its share in the research field of water bioremediation, while research on nutrient removal has focused on providing new insights on the mechanism of nitrogen and phosphorus removal from wastewater in algal–bacterial systems. Finally, it is worth noticing that breakthroughs in complementary fields of research such as nanotechnology or lighting technology are gradually being implemented in algal biotechnology, with new products such as nanoparticles for water disinfection or photobioreactors illuminated by low intensity LED panels. In Focus – a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.*

Fossil Energy Update

Sludge Reduction Technologies in Wastewater Treatment Plants

IWA Publishing *Sludge Reduction Technologies in Wastewater Treatment Plants is a review of the sludge reduction techniques integrated in wastewater treatment plants with detailed chapters on the most promising and most widespread techniques. The aim of the book is to update the international community on the current status of knowledge and techniques in the field of sludge reduction. It will provide a comprehensive understanding of the following issues in sludge reduction: * principles of sludge reduction techniques; * process configurations; * potential performance; * advantages and drawbacks; * economics and energy consumption. This book will be essential reading for managers and technical staff of wastewater treatment plants as well as graduate students and post-graduate*

specialists.

Federal Register

Agriculture, Rural Development, Food and Drug Administration, and related agencies appropriations bill, 2006

report together with additional views (to accompany H.R. 2744).

Index to Catalog of Information on Water Data

Water quality stations reported by federal agencies

Energy: a Continuing Bibliography with Indexes

Every Drop Counts

Environmentally Sound Technologies for Urban and Domestic Water Use Efficiency

UNEP/Earthprint *Water use efficiency within the context of sustainable water balance in the urban and domestic sector means optimising safe and sufficient supply and water demand while also closing the life cycle. As environmentally sound technologies play a crucial role in this process technologies and best practices for storage, supply and distribution as well as water related policies need to be identified. The source book provides a comprehensive overview about Environmentally Sound Technologies (ESTs) for water use efficiency in the urban and domestic environment.*

United States Congressional Serial Set, Serial No. 14919, House Reports Nos. 567-598

Government Printing Office

Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations Bill, 2005

Report Together with Additional Views (to Accompany H.R. 4766).

Adsorption Design for Wastewater Treatment

CRC Press *Adsorption: it's the most important method for removing organic contaminants from wastewater streams. Students and professionals alike in the fields of water/wastewater treatment and environmental engineering have expressed tremendous interest in learning and understanding adsorption processes. Adsorption Design for Wastewater Treatment fulfills the need for a true textbook on this increasingly important subject . From the basics of the adsorption process to specifics on system design, this overview serves a dual purpose: study manual and design guide. Straightforward explanations and illustrations make Adsorption Design for Wastewater Treatment ideal for junior, senior and graduate-level university courses. Practicing engineers will find the book especially useful for accurate, direct advice on designing batch and fixed-bed adsorption systems. Contaminant removal will be an ever-present challenge to environmental engineers. Gain a clear understanding of one of the most important cleanup methods with Adsorption Design for Wastewater Treatment.*

Advanced Oxidation Processes for Wastewater Treatment

An Innovative Approach

CRC Press *Advanced Oxidation Processes for Wastewater Treatment: An Innovative Approach: This book highlights the importance of various innovative advanced oxidation technology to clean up the environment from pollution caused by human activities. It assesses the potential application of several existing bioremediation techniques and introduces new emerging technologies. This book is an updated vision of the existing advanced oxidation strategies with their limitations and challenges and their potential application to remove environmental pollutants. It also introduces the new trends and advances in environmental bioremediation technology with thorough discussion of recent developments in this field. This book highlights the importance of different innovative advanced oxidation process to deal with the ever-increasing number of environmental pollutants. Features: Illustrates the importance of various advance oxidation processes in effluent treatment plant Points out the reuse of the treated wastewater through emerging advance oxidation technologies for effluent treatment plant Highlights the recovery of resources from wastewater Pays attention to the occurrence of novel micro-pollutants Emphasizes the role of nanotechnology in bioremediation of pollutants Introduces new trends in environmental bioremediation*

Resources in Education

Vocational & Technical Schools - East

More Than 2,600 Vocational Schools East of the Mississippi River

Peterson's *Provides information on programs, student body, financial aid, and student services for vocational schools east of the Mississippi River.*

Wastewater Treatment

Molecular Tools, Techniques, and Applications

CRC Press *Wastewater Treatment: Molecular Tools, Techniques, and Applications provides an insight about the application of different tools and technology for exploring microbial structure-function relationships that involved in WWTPs. From the present day consequence of alarming usable water crysis throughout the globe, an immediate action on water cycle is necessary. Along with other options*

the waste water recycling is one major opportunity to combat the future scarcity. The book aims to provide a comprehensive view of advanced emerging technologies for wastewater treatment, heavy metal removal, pesticide degradation, dye removal, waste management, microbial transformation of environmental contaminants, etc. It also describes different application of Omic tools in Waste water treatment plants (WWTPs),describes the role of microorganisms in WWTPs, points out the reuse of treated wastewater through emerging technologies, also includes the recovery of resources from wastewater and emphasizes on cutting edge molecular tools for WWTPs. We hope the content of the book will be very much usefull for the community who are directly associated in wastewater management research, people who are associated with environmental awarness programme and the students of UG and PG courses. Features: This book highlights the importance of molecular genomics, molecular biology techniques to sort out the problems faced by industrialist who operates wastewater treatment plant with the ever-increasing number of environmental pollutants. Describes application of different Omic tools in Wastewater treatment plants (WWTPs) Describes the role of microorganisms in WWTPs Points out the reuse of treated wastewater through emerging technologies. Includes the recovery of resources from wastewater Emphasizes on cutting edge molecular tools This book targets engineers, scientists and managers who require an excellent introduction and basic knowledge to the principles of molecular biology or molecular genomics in the area of wastewater treatment. Different professionals working or interested in the Environmental Microbiology or Bioremediation or Environmental Genomics field. Students on Environmental Biotechnology/Microbiology.

Handbook of Water and Wastewater Treatment Technologies

Butterworth-Heinemann *This Handbook is an authoritative reference for process and plant engineers, water treatment plant operators and environmental consultants. Practical information is provided for application to the treatment of drinking water and to industrial and municipal wastewater. The author presents material for those concerned with meeting government regulations, reducing or avoiding fines for violations, and making cost-effective decisions while producing a high quality of water via physical, chemical, and thermal techniques. Included in the texts are sidebar discussions, questions for thinking and discussing, recommended resources for the reader, and a comprehensive glossary. Two companion books by Cheremisinoff are available: Handbook of Air Pollution Control Technologies, and Handbook of Solid Waste Management and Waste Minimization Technologies. * Covers the treatment of drinking water as well as industrial and municipal wastewater * Cost-efficiency considerations are incorporated in the discussion of methodologies * Provides practical and broad-based information in one comprehensive source*

Privatizing Governmental Functions

Law Journal Press *Offers a discussion and analysis of the procurement process and its political setting; strategies for contractors; and financing issues. This book includes chapters devoted to such areas as public housing, correctional facilities, waste disposal, and more. It is useful for attorneys, contractors, government officials, consultants, and scholars.*