

Phosphorus And Nitrogen Removal From Municipal Wastewater

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this valuable new book offers practical guidance regarding the design and operation of systems for reducing effluent nitrogen and phosphorus the principles of nitrogen and phosphorus removal are discussed including sources of nitrogen and phosphorus in wastewater removal options nitrogen and phosphorus transformations in treatment process selection and treatment the book also covers the design and operation of nitrogen and phosphorus removal systems including system options system design facility design facility costs and operation practical case studies are provided as examples of successful system implementations that may be able to help you decide what will work best in your plant

water energy and food are basic requirements for life and this book presents solutions for obtaining these from sewage wastewater treatment plants it describes the optimal recovery of value added products from municipal sewage plants in developing countries and explains how the plants operations can become both economical and sustainable further it shows how the clean effluent that is obtained is then suitable for agricultural use in the production of bio fertilizers and graywater for irrigation and how the recovered biogas could be used for energy and heating needs practical case studies from three separate sewage plants are presented to illustrate the processes involved

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in many countries especially in developing countries many people are lacking access to water and sanitation services and this inadequate service is the main cause of diseases in these countries application of appropriate wastewater treatment technologies which are effective low cost in investment and especially in operation and maintenance simple to operate proven technologies is a key component in any strategy aimed at increasing the coverage of wastewater treatment sustainable treatment and reuse of municipal wastewater presents the concepts of appropriate technology for wastewater treatment and the issues of strategy and policy for increasing wastewater treatment coverage the book focuses on the resolution of wastewater treatment and disposal problems in developing countries however the concepts presented are valid and applicable anywhere and plants based on combined unit processes of appropriate technology can also be used in developed countries and provide to them the benefits described sustainable treatment and reuse of municipal wastewater presents the basic engineering design procedures to obtain high quality effluents by treatment plants based on simple low cost and easy to operate processes the main message of the book is the idea of the ability to combine unit processes to create a treatment plant based on a series of appropriate technology processes which jointly can generate any required effluent quality a plant based on a combination of appropriate technology unit processes is still easy to operate and is usually of lower costs than conventional processes in terms of investment and certainly in operation and

maintenance chapters in the book are organized in a practical and accessible way to demonstrate selected unit process of appropriate technology and provide the scientific basis the equations and the parameters required to design the unit processes with some innovations developed by the authors highlight design procedures for selected combined processes which are in use in developing countries propose an innovative orderly design method odm which is easy to follow by practicing engineers using the equations and formulas developed once the fundamentals of each unit and combined process have been established provide a numeric example for the basic design of each selected appropriate technology process for a city with a population of 20 000 using the odm and an excel program which will be provided to the readers for download from an online web page this book is a valuable and practical resource for all wastewater treatment engineers in field and the operational managers of waste treatment facilities authors menahem libhaber phd consulting engineer to the world bank and other institutions alvaro orozco jaramillo msc consulting engineer to the world bank the inter american development bank biwater and other institutions in various countries

a thorough analysis of public policy and the clean water act seffect on water quality in the u s using water quality data and historical records from the past 60years this book presents the measured impact of the 1972 cleanwater act on domestic waterways ecologically politically andeconomically municipal wastewater treatment supports thehypothesis that the act s regulation of wastewater treatmentprocesses at publicly owned treatment works potw and industrialfacilities has achieved significant success the authors case ispresented in background information on the history of water pollution controland water quality management chapters addressing long term trends in biochemical oxygen demandloadings from municipal wastewater plants and the worst case dissolved oxygen levels in waterways downstream of point sourcesbefore and after the clean water act nine case study assessments of long term trends of pollutantloading water quality and environmental resources associated withpotw discharges using long term trends in dissolved oxygen as the key indicator ofwater quality improvements this book provides a detaileddretrospective analysis of the effectiveness of the water pollutioncontrol policies and regulations of the 1972 clean water act thesuccesses of the act that have been achieved over the past 30 yearsare placed in the historical context of the great sanitaryawakening of the 19th century and changes in public policies forwater supply and water pollution control that have evolved duringthe 20th century to protect public health and the intrinsic valueof aquatic resources case study sites include the connecticutriver hudson raritan estuary delaware estuary potomac estuary upper chattahoochee river ohio river upper mississippi river andwillamette river complete with end of chapter summaries and conclusions municipalwastewater treatment evaluating improvements in national waterquality is an essential book for engineers scientists regulators and consultants involved in water quality management and wastewatertreatment as well as students of environmental engineering environmental science and public policy

algal and sustainable technologies bioenergy nanotechnology and green chemistry is an interdisciplinary overview of the world s major problems water scarcity clean environment and energy and their sustenance remedy measures using microalgae it comprehensively presents the way to tackle the socio economic issues including food feed fuel medicine and

health and also entails the untapped potential of microalgae in environmental management bioenergy solution and sustainable synthesis of pharmaceutical and nutraceutical products this book basically emphasizes the success of algae as wonderful feed stocks of future and provides upto date information and sustainable and recreational outlook towards degrading environment and energy crisis applicability of fast emerging algae based nanotechnology in bioremediation and production of nanoparticle aupp agnp etc are beautifully described along with latest research and findings key features the waste to best to income strategies are the main concern of the book and take the edge off the problem of pollution energy and income elucidate the sustainable phycoremediation and nanoparticle functions as low cost approach for various ecosystem services information regarding pharmaceuticals nutraceuticals and other algae based value added product synthesis and fate are comprehensively discussed knowledge resource latest research findings and prospects presented in an accessible manner for researchers students eminent scientists entrepreneurs professionals and policy maker

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