

Biological Process And Wastes In The Ocean

Industrial Waste Treatment Process Engineering
 Handbook of Industrial and Hazardous Wastes Treatment
 Anaerobic filtration
 Oceanic Processes in Marine Pollution
 Anaerobic filtration, a biological process for warm trade waste waters
 Biotechnology for Waste and Wastewater Treatment
 Biological Waste Treatment
 The Complete Book on Biological Waste Treatment and their Utilization
 The Science of Composting
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 Microbial Aspects of Pollution
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 Innovative Hazardous Waste Treatment Technology Series
 Physicochemical Processes and Wastes in the Ocean
 Industrial Waste Treatment Process Engineering
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 Biological process effects of organic wastes at Puerto Rican ocean dumping sites
 Olive Processing Waste Management
 Biological Treatment of Food Processing Wastes
 Agricultural Waste Management
 Handbook on Organic Waste for Biological Treatment, Liquid Manure into a Solid, Tomato Waste Water Treatment, Oxalic Acid from Jute Stick, Cotton Processing Waste, Fish Waste, Agro-Industrial Wastes, Bioconversion of Pretreated Wheat Straw and Sunflower Stalks to Ethanol, Agricultural Waste Treatment, Waste of Dehydrated Onion, Beef-Cattle Manure Slurry, Meat Meal and Algae for Calves, Wastes from Large Piggeries, Pig Waste, Oxytetracycline, Methane from Cattle Waste
 Chemical-biological Process of Waste Material from Navelli's Saffron
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 Recovery, Recycling, Re-integration
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 Integrated Waste Management
 Biological process effects of organic wastes at Puerto Rican ocean dumping sites
 Studies of chemical and biological process effects of industrial wastes released into the Gulf of Mexico by ocean dumping

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Industrial Waste Treatment Process Engineering CRC Press

Biological Waste Treatment is the outgrowth of a course entitled "'Bio-oxidation of Organic Wastes—Theory and Design"' initiated at Manhattan College in 1955. The objective of the course was to present the fundamentals of bio-oxidation which would serve as a framework for the analysis, design, and operation of biological waste treatment facilities. This book reflects the authors' approach to the solution of waste treatment problems. It is intended as an engineering text that applies the principles of physics, chemistry, and biology of waste treatment to the design and operation of waste treatment facilities. The book begins with discussions of the pollutional characteristics of waste waters, the strength and flow of waste, waste treatment processes, and biochemical oxygen demand. Subsequent chapters cover the principles of biological oxidation, the theory and practice of aeration, stream and estuary analysis, and solid-liquid separation. The final

chapters deal with aerobic and anaerobic biological treatment processes and sludge handling and disposal. Although this text is primarily intended to serve as a guide for the practicing engineer, it should also serve as a useful reference for graduate students in sanitary engineering.

Handbook of Industrial and Hazardous Wastes Treatment CRC Press

Industrial Waste Treatment Process Engineering is a step-by-step implementation manual in three volumes, detailing the selection and design of industrial liquid and solid waste treatment systems. It consolidates all the process engineering principles required to evaluate a wide range of industrial facilities, starting with pollution prevention and source control and ending with end-of-pipe treatment technologies. Industrial Waste Treatment Process Engineering guides experienced engineers through the various steps of industrial liquid and solid waste treatment. The structure of the text allows a wider application to various levels of experience. By beginning each chapter with a simplified explanation of applicable theory, expanding to practical design discussions, and finishing with system Flowsheets and Case Study detail calculations, readers can "enter or leave" a section according to their specific needs. As a result, this set serves as a primer for students

engaged in environmental engineering studies AND a comprehensive single-source reference for experienced engineers. Industrial Waste Treatment Process Engineering includes design principles applicable to municipal systems with significant industrial influents. The information presented in these volumes is basic to conventional treatment procedures, while allowing evaluation and implementation of specialized and emerging treatment technologies. What makes Industrial Waste Treatment Process Engineering unique is the level of process engineering detail. The facility evaluation section includes a step-by-step review of each major and support manufacturing operation, identifying probable contaminant discharges, practical prevention measures, and point source control procedures. This theoretical plant review is followed by procedures to conduct a site specific pollution control program. The unit operation chapters contain all the details needed to complete a treatment process design.

Anaerobic filtration Springer Science & Business Media

This book reports research on policy and legal issues, anaerobic digestion of solid waste under processing aspects, industrial waste, application of GIS and LCA in waste management, and a

couple of research papers relating to leachate and odour management.

Oceanic Processes in Marine Pollution Springer

Pollution and its effects on the environment have emerged as critical areas of research within the past 30 years. The Handbook of Environmental Engineering is a collection of methodologies that study the effects of pollution and waste in their three basic forms: gas, solid, and liquid. In Volume 8, Biological Treatment Processes, tried-and-true solutions comprise a "methodology of pollution control". The distinguished panel of authors contributes detailed chapters, which include topics ranging from treatment by land application, activated sludge processes, and submerged aeration to trickling filters, lagoons, rotating biological contactors, sequencing batch reactors, digestions, and composting. Volume 8 and its sister book - Volume 9: Advanced Biological Treatment Processes - are designed as both basic biological waste treatment textbooks and reference books for advanced undergraduate and graduate students - as well as for designers of waste treatment systems, scientists, and researchers. An indispensable addition to the Humana Press series, Volume 8: Biological Treatment Processes provides an illuminating look at water pollution control and the fascinating evolution of bio-environmental engineering.

Anaerobic filtration, a biological process for warm trade waste waters CRC Press

This book reports research on policy and legal issues, anaerobic digestion of solid waste under processing aspects, industrial waste, application of GIS and LCA in waste management, and a couple of research papers relating to leachate and odour management.

Biotechnology for Waste and Wastewater Treatment Krieger Publishing Company

This book examines the practices used or considered for biological treatment of water/waste-water and hazardous wastes. The technologies described involve conventional treatment processes, their variations, as well as future technologies found in current research. The book is intended for those seeking an overview to the biotechnological aspects of pollution engineering, and covers the major topics in this field. The book is divided into five major sections and references are provided for those who wish to dig deeper.

Biological Waste Treatment IntechOpen

Proceedings of the International Congress on Recent Advances in the Management of Hazardous and Toxic Wastes in the Process Industries, Vienna, Austria, 8-13 March 1987.

The Complete Book on Biological Waste Treatment and their Utilization Prentice Hall

Microbes are the most abundant organisms in the biosphere and regulate many critical elemental and biogeochemical phenomena. Because microbes are the key players in the carbon cycle and in related biological reactions, microbial ecology is a vital research area for understanding the contribution of the biosphere in global warming and the response of the natural environment to climate variations. The beneficial uses of microbes have enabled constructive and cost-effective responses that have not been possible through physical or chemical methods. This new volume reviews the multifaceted interactions among microbes, ecosystems, and their pivotal role in maintaining a more balanced environment, in order to help facilitate living organisms coexisting with the natural environment. With extensive references, tables, and illustrations, this book provides valuable information on microbial utilization for environmental sustainability and provides fascinating insights into microbial diversity. Key features include: Looks at enhancing plant production through growth-promoting arbuscular mycorrhizae, endophytic bacteria, and microbiome networks Considers microbial degradation and environmental management of e-wastes and azo dyes Explores soil-plant microbe interactions in metal-contaminated soils Examines radiation-resistant thermophiles for engineered bioremediation Describes potential indigenous/effective microbes for wastewater treatment processes Presents research on earthworms and microbes for organic farming

Routledge

This comprehensive text provides the reader with both a detailed reference and a unified course on wastewater treatment. Aimed at scientists and engineers, it deals with the environmental and biological aspects of wastewater treatment and sludge disposal. The book starts by examining the nature of wastewaters and how they are oxidized in the natural environment. An introductory chapter deals with wastewater treatment systems and examines how natural principles have been harnessed by man to treat his own waste in specialist reactors. The role of organisms is considered by looking at kinetics, metabolism and the different types of micro-organisms involved. All the major biological process groups are examined in detail, in highly referenced chapters; they include fixed film reactors, activated sludge, stabilization ponds, anaerobic systems and vegetative processes. Sludge treatment and disposal is examined with particular reference to the

environmental problems associated with the various disposal routes. A comprehensive chapter on public health looks at the important waterborne organisms associated with disease, as well as removal processes within treatment systems. Biotechnology has had an enormous impact on wastewater treatment at every level, and this is explored in terms of resource reuse, biological conversion processes and environmental protection. Finally, there is a short concluding chapter that looks at the sustainability of waste water treatment. The text is fully illustrated and supported by over 3000 references. Contents:How Nature Deals with WasteHow Man Deals with WasteThe Role of OrganismsFixed-Film ReactorsActivated SludgeNatural Treatment SystemsAnaerobic Unit ProcessesSludge Treatment and DisposalPublic HealthBiotechnology and Wastewater Treatment Readership: Graduate students in wastewater technology. Reviews:"Anyone interested in the biology of wastewater treatment will find this book useful."Biotechnology Advances "... is both well written and informative and it should appeal to anyone with an interest in wastewater treatment. It covers the ground in sufficient depth to stay useful throughout one's entire career, serving as an essential reference, allowing one to dive in and out at will as one's needs dictate ... manages to fulfil what I believe to be its aim of bridging the gap between wastewater engineering and its underlying biology."Journal of the Chartered Institution of Water and Environmental Management *The Science of Composting* CRC Press

Olive Processing Waste Management contains a comprehensive review of literature and patent survey concerning olive processing waste. Over 1,000 citations are presented. Wastes considered include olive cultivation solid waste, wastes arising from classical, three- and two-phase olive mills and wastes generated during table olive processing. In addition, information is presented concerning the management of spent olive oil (e.g. from cooking). The book is divided into five parts. Part I presents background information concerning the characterization of olive processing wastes, their environmental impacts if disposed untreated and the effect of utilised olive-mill technology on the quantity and quality of generated wastes. Part II presents physical, thermal, physico-chemical, biological and combined or miscellaneous processes for treating olive-mill wastes. Part III concerns information on utilization of such wastes with or without prior treatment. Part IV concentrates on table olive processing waste and presents information regarding its characterization, treatment and uses. Part V presents an economical and legislative overview regarding olive-mill waste. The book contains a bibliography, glossary of terms used in the text, subject, patent and author indices as well as pertinent internet sites and authorities. Complete coverage of all available literature and patents concerning olive processing waste including economic and legislative issues Critical review of up to date utilized processes concerning treatment and uses of such waste Determination of research needs for further utilization of such wastes

Proceedings-- Second International Conference on Fixed-Film Biological Processes

Industrial Waste Treatment Process Engineering

Microbial Aspects of Pollution is the first of a new series that emerged from the annual Summer Conference of Society for Applied Bacteriology, focusing on microbiological subjects of general topical interest. The subject of the 1971 symposium "Microbial Aspects of Pollution" is particularly topical. Pollution is an environmental problem and almost invariably arises from the activities of man. Micro-organisms have their part to play, both advantageously and disadvantageously, and the 16 contributions, written by recognized experts in the field, range widely over the subject. They include considerations of the health hazards of pollution, embracing the consequences of sewage pollution of our water supplies and a most important topic to the laboratory worker—the safe disposal of infected material. A series of papers deals with water purification problems and the disposal of sewage and other wastes, and their effects on the waters of rivers and lakes. Special attention is given in this context to the disposal of industrial wastes. Other contributions deal with the disposal of the newer industrial products of the organic chemist, namely, pesticides, herbicides, fungicides, and plastic materials.

Microbial Aspects of Pollution CRC Press

The cumulative effects of pollution have led, in recent years, to increased public concern, which is resulting in stricter legislation on the discharge of wastes in whatever state they are present: gaseous, liquid or solid. The treatment and disposal of wastes has become one of the most important problems facing mankind. This is a problem which will not disappear, and could even worsen, if it is not faced with resolution by all the main parties involved: consumers, governments, producers and scientists. Some wastes could be reused, producing some economic return which could pay for the waste-treatment process. In the best of cases, this could become an

economically attractive recycling operation. However, in many situations, waste treatment is considered to be an unproductive process which entails additional costs to an otherwise productive operation. Methods for the removal and purification of wastes (including those considered to be 'toxic wastes', the most dreaded form of pollution), if developed at all, suffer from serious limitations. Two of these are the high energy input into the process and, after the contaminants have been removed, the lingering problem of what to do with them, as they will then exist as some kind of concentrate. The ideal solution is none other than a natural, biological process to degrade wastes. Fortunately, mankind is increasingly choosing that option, as exemplified by the general acceptance of the role of biotechnology in modern society.

Biological Degradation of Wastes NIIR PROJECT CONSULTANCY SERVICES

Industrial Waste Treatment Process Engineering is a step-by-step implementation manual in three volumes, detailing the selection and design of industrial liquid and solid waste treatment systems. It consolidates all the process engineering principles required to evaluate a wide range of industrial facilities, starting with pollution prevention and source control and ending with end-of-pipe treatment technologies. Industrial Waste Treatment Process Engineering guides experienced engineers through the various steps of industrial liquid and solid waste treatment. The structure of the text allows a wider application to various levels of experience. By beginning each chapter with a simplified explanation of applicable theory, expanding to practical design discussions, and finishing with system Flowsheets and Case Study detail calculations, readers can "enter or leave" a section according to their specific needs. As a result, this set serves as a primer for students engaged in environmental engineering studies AND a comprehensive single-source reference for experienced engineers. Industrial Waste Treatment Process Engineering includes design principles applicable to municipal systems with significant industrial influents. The information presented in these volumes is basic to conventional treatment procedures, while allowing evaluation and implementation of specialized and emerging treatment technologies. What makes Industrial Waste Treatment Process Engineering unique is the level of process engineering detail. The facility evaluation section includes a step-by-step review of each major and support manufacturing operation, identifying probable contaminant discharges, practical prevention measures, and point source control procedures. This theoretical plant review is followed by procedures to conduct a site specific pollution control program. The unit operation chapters contain all the details needed to complete a treatment process design.

Advanced Biological Treatment Processes Krieger Publishing Company

Offering a comprehensive approach, this title covers fundamentals, technologies, and management of biological processing of solid waste. It discusses kinetic modeling and synergistic impact evolution during bioprocessing of solid waste, environmental impacts such as greenhouse gas emission from biological processing of solid waste, energy recovery from solid waste, and biodrying of solid waste. It also presents cases and challenges from different countries, successful business models, and economic analyses of various processing options. Aimed at researchers and industry professionals in solid and hazardous waste management, this title offers a wealth of knowledge to help readers understand this increasingly important area.

Biological Process Design for Wastewater Treatment CRC Press

This title includes a number of Open Access chapters. Intended for a wide audience ranging from engineers and academics to decision-makers in both the public and private sectors, Biological Treatment of Solid Waste: Enhancing Sustainability reviews several technologies that help communities manage solid waste sustainably, while at the same time generating energy, revenue, and other resources. The book is divided into three topics: Microbial technologies for solid waste treatment Composting Biodrying Included within these larger topics are case studies and investigations into particular aspects of each, with attention paid to food waste, animal waste, municipal waste, and certain forms of industrial waste. The editor is an environmental engineer with an international reputation, and she has included her own research studies as well as that of her colleagues, many of which have been presented at international waste management conferences. She concludes that our world can no longer afford to consider waste as something that can be discarded with no regard for future use. Instead, if addressed correctly through policy and practice, solid waste can become a valuable resource.

Anaerobic Filtration: a Biological Process for Warm Trad Waste Waters Elsevier

Interest in solid waste disposal has been growing since the early 1960s, when researchers emphasized the potential for solid waste to harbor pathogenic microorganisms. Since then, society has become more interested in the environmental impacts of solid waste treatment and disposal,

and how biological processes are used to minimize these impacts. This new text provides a basic understanding of the unique microbial ecosystems associated with the decomposition of municipal solid waste (MSW). It addresses the challenges of sampling and assaying microbial activities in MSW and describes preferred methods. The decomposition of MSW under anaerobic conditions in landfills and digestors is described, as well as under aerobic conditions during composting. The Microbiology of Solid Wastes discusses the need to consider MSW as an integrated system of collection, recycling, treatment, and disposal. A better understanding of solid waste microbiology will contribute to safe and economical solid waste management. Microbiologists, environmental engineers, and solid waste managers will all find this a useful reference.

[Integrated Waste Management](#) Elsevier

Agricultural Waste Management: Problems, Processes, and Approaches is a summary of the processes and approaches applicable to the solution of agricultural waste management problems. This book is organized into three parts encompassing 13 chapters that is intended as a bridge between theory and practice as well as between the many disciplines that are involved in agricultural waste management. The primary focus of agricultural waste management is on the obvious problems of odor control and feedlot runoff. The first part looks into the status of agricultural waste problem and the application of engineering and scientific fundamentals to the management of these wastes. This part also deals with the role of the land in waste management, and then outlines the guidelines for the development of feasible waste management systems. The second part describes the fundamentals, principles, and benefits of various waste management processes, including biological processes, ponds and lagoons, aerobic, anaerobic, physical, and chemical treatments, and nitrogen control; as well as treatment systems, such as ponds, lagoons, and land disposal. The third part examines the integration of the most economical and equitable combination of alternative technologies into feasible waste management approaches. This work will be of great value to agricultural producers and manufacturers, scientists, and engineers.

[Biology of Wastewater Treatment](#) Elsevier

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Presenting effective, practicable strategies modeled from ultramodern technologies and framed by the critical insights of 78 field experts, this vastly expanded Second Edition offers 32 chapters of industry- and waste-specific analyses and treatment methods for industrial and hazardous waste materials-from explosive wastes to landfill leachate to wastes produced by the pharmaceutical and food industries. Key additional chapters cover means of monitoring waste on site, pollution prevention, and site remediation. Including a timely evaluation of the role of biotechnology in contemporary industrial waste management, the Handbook reveals sound approaches and sophisticated technologies for treating textile, rubber, and timber wastes dairy, meat, and seafood industry wastes bakery and soft drink wastes palm and olive oil wastes pesticide and livestock wastes pulp and paper wastes phosphate wastes detergent wastes photographic wastes refinery and metal plating wastes power industry wastes This state-of-the-art Second Edition is required reading for pollution control, environmental, chemical, civil, sanitary, and industrial engineers; environmental scientists; regulatory health officials; and upper-level undergraduate and graduate students in these disciplines.

Management of Hazardous and Toxic Wastes in the Process Industries CRC Press

The organic waste stream is composed of waste of a biological origin such as paper and cardboard, food, green and garden waste, animal waste and biosolids and sludges. Organic waste is usually generated as a component of most waste streams. For information on the treatments for managing organic wastes click on the links to the right. Four significant components of this organic, biodegradable stream are from food preparation, agricultural production, livestock manures, and municipal sewage sludge. Organic waste from food sources includes vegetables, fruits, grains, meats, fish, dairy products, etc., and constitutes some 18% of the typical municipal organic waste stream. An average of 1 kg per person per day of organic waste is produced, originating from households, wholesalers & processors, restaurants, and institutions. Urban centers are the major generators of organic food waste. Agricultural waste includes waste made up of those materials

such as manure and animal output, in either solid or liquid form from poultry or other livestock operations. It also includes harvest remains from grain, oilseed, vegetable, and orchard crops. Increase in biological waste has led to the increase in biological waste management technology. Waste management is the collection, transport, processing or disposal, managing and monitoring of waste materials. The book includes organic waste for biological treatment, organic waste forms and treatment strategies, transformation of liquid manure into a solid, modeling of agricultural waste treatments, utilization of Indian waste in livestock feeds etc. This book also explains the different types of organic wastes like waste from tomato, jute, cotton, agro-industries, dehydration process of onion, piggeries, poultry, milk parlour etc. This book describes the methods how organic waste can be converted into useful products like oxalic acid, oxytetracycline, humic acids etc. The book is highly recommended to new entrepreneurs, existing units who wants to get more information of organic waste treatment.

[Microbiology of Solid Waste](#) Elsevier

FROM THE PREFACE The main objective of composting is to transform organic materials into a stable usable product. Often organic materials which may have limited beneficial use in their raw state or have regulatory disposal constraints can be transformed by composting into marketable products. The limits on beneficial reuse may be regulations or they may be due to the potential for materials to be putrescible or pathogenic. Composting can be a solution for each of these. The implementation of composting on a large scale (in contrast to home or backyard composting) involves materials handling. Technological implementation of composting must be consistent with the biological demand of the system. If the biological system is violated, conditions will not be optimized for composting, and problems such as odor generation, insufficient aeration or moisture, or a combination of these conditions may result. Past problems and closure of facilities have been largely due to violations of the biological systems. Product quality with respect to particle size, inclusions, moisture content and other physical aspects are a function of engineering design. A well designed system must have the biological and engineering principles in harmony at all times.