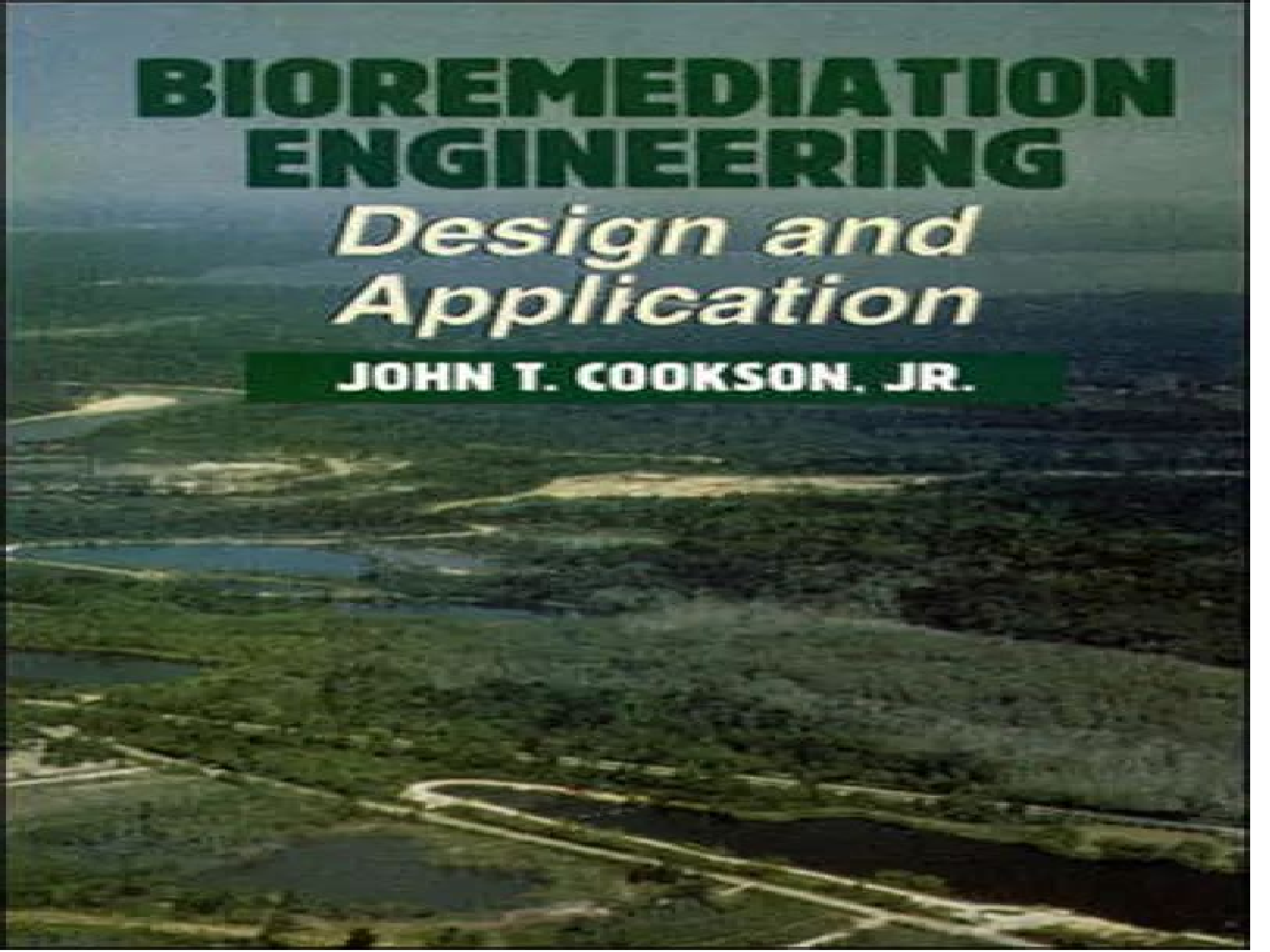


BIOREMEDIATION ENGINEERING

Design and Application

JOHN T. COOKSON, JR.



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Sunggyu Lee



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Soil Contamination and Remediation Effects on the Structure and Activity of Soil Microbial Communities M.V. Bindu, V.S. Harikumar, 2016-08 Soil can be defined as the space time continuum forming the upper part of the earth's crust It is a natural body comprised of solid liquid and gases that occur on the land surface Joffe 1949 defined soil as a natural body differentiated into horizons of mineral and organic constituents usually unconsolidated of variable depth which differs from the parent material below in morphology physical properties and constitution chemical properties and composition and biological characteristics Soil is one of the most fundamental resources for sustainability and survival It is one of the most

important assets to protect and pass on to future generations Soil contamination due to anthropogenic and natural sources is increasing day by day because of increasing population industrialization and urbanization Soil is the receptor of many contaminants from various sources Contamination decreases the quality of the soil and adversely affects soil organisms For this study soil samples from thirteen locations contaminated from agricultural industrial and organic sources spread over the districts of Alappuzha and Kottayam in Kerala in the south west coast area of India were analyzed to study the changes in soil characteristics and its influence on soil microbial communities and their activities

Environmental Microbiology Ralph Mitchell, Ji-Dong Gu, 2010-01-08 The bestselling reference on environmental microbiology now in a new edition This is the long awaited and much anticipated revision of the bestselling text and reference Based on the latest information and investigative techniques from molecular biology and genetics this Second Edition offers an in depth examination of the role of microbiological processes related to environmental deterioration with an emphasis on the detection and control of environmental contaminants Its goal is to further our understanding of the complex microbial processes underlying environmental degradation its detection and control and ultimately its prevention Features new to this edition include A completely new organization with topics such as pathogens in developing countries effects of genetically modified crops on microbial communities and transformations of toxic metals Comprehensive coverage of key topics such as bacteria in the greenhouse and low energy waste treatment New coverage relating core book content to local regional and global environmental problems Environmental Microbiology Second Edition is essential reading for environmental microbiologists and engineers general environmental scientists chemists and chemical engineers who are interested in key current subjects in environmental microbiology It is also appropriate as a textbook for courses in environmental science chemistry engineering and microbial ecology at the advanced undergraduate and graduate levels

Microbial Biodegradation of Xenobiotic Compounds Young-Cheol Chang, 2019-01-30 Microbial Biodegradation of Xenobiotic Compounds examines and collects the recent information on the bioremediation technologies around the world This book focuses on methods to decrease pollutants created by anthropogenic activities industrial activities and agricultural activities This book answers some of the questions about how to reduce contaminants And whether there is a possibility of converting these pollutants in to useful energy by advanced biotechnological methods The book combines present obtainable data with the expert knowledge of researchers from all over the world covering different aspects of environmental biotechnology and microbiology It covers basic concepts of bioremediation and various methods involved in the bioremediation process and provides specific chapters on the role of different genes and enzymes involved in microbial bioremediation process It also gives special attention to heavy metal bioremediation by microalgae and the mechanisms involved during the degradation process Recent innovative technologies about converting toxic pollutants in to useful energy like bioplastics and electricity are also discussed by specialist authors Various chapters address the bioremediation of pesticides in soil using microbial

metabolites and molecular aspects of biodegradation which cover topics including identification of novel genes through the metagenomic approach and bioremediation using fungal laccase enzymes *Engineered Nanoparticles* Ashok K. Singh, 2015-11-24 *Engineered Nanoparticles Structure Properties and Mechanisms of Toxicity* is an indispensable introduction to engineered nanomaterials ENM and their potential adverse effects on human health and the environment Although research in the area of pharmacology and toxicology of ENM is rapidly advancing a possible correlation between their physicochemical properties and biomedical properties or toxicity is not yet fully understood This understanding is essential to develop strategies for the safe applications and handling of ENM The book comprehensively defines the current understanding of ENM toxicity first describing these materials and their physicochemical properties and then discussing the toxicological theory and methodology before finally demonstrating the potential impact of ENM on the environment and human health It represents an essential reference for students and investigators in toxicology pharmacology chemistry material sciences medicine and those in related disciplines who require an introduction to ENM and their potential toxicological effects Provides state of the art physicochemical descriptions and methodologies for the characterization of engineered nanomaterials ENM Describes the potential toxicological effects of ENM and the nanotoxicological mechanisms of action Presents how to apply theory to practice in a public health and risk assessment setting

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