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1973 (PDF)

methane is a powerful greenhouse gas and is estimated to be responsible for approximately one fifth of man made global warming per kilogram it is 25 times more powerful than carbon dioxide over a 100 year time horizon and global warming is likely to enhance methane release from a number of sources current natural and man made sources include many where methane producing micro organisms can thrive in anaerobic conditions particularly ruminant livestock rice cultivation landfill wastewater wetlands and marine sediments this timely and authoritative book provides the only comprehensive and balanced overview of our current knowledge of sources of methane and how these might be controlled to limit future climate change it describes how methane is derived from the anaerobic metabolism of micro organisms whether in wetlands or rice fields manure landfill or wastewater or the digestive systems of cattle and other ruminant animals it highlights how sources of methane might themselves be affected by climate change it is shown how numerous point sources of methane have the potential to be more easily addressed than sources of carbon dioxide and therefore contribute significantly to climate change mitigation in the 21st century publisher s description includes a revised taxonomic outline for the phyla bacteroidetes planctomycetes chlamydiae spirochetes fibrobacteres fusobacteria acidobacteria verrucomicrobia dictyoglomi and gemmatimonadetes based upon the silva project as well as a description of more than 153 genera in 29 families includes many medically important taxa meiosis is the key process underlying sexual reproduction in eukaryotes occurring in single celled eukaryotes and in most multicellular eukaryotes including animals and most plants thus meiosis is of considerable interest both at the scientific level and at the level of natural human curiosity about sexual reproduction improved understanding of important aspects of meiosis has emerged in recent years and major questions are starting to be answered such as how does meiosis occur at the molecular level how did meiosis and sex arise during evolution what is the major adaptive function of meiosis and sex in addition changing perspectives on meiosis and sex have led to the question how should meiosis be taught this book proposes answers to these questions with extensive supporting references to the current literature this handbook focuses on biopolymers for both environmental and biomedical applications it shows recent advances in technology in all areas from chemical synthesis or biosynthesis to end use applications these areas have not been covered in a single book before and they include biopolymers for chemical and biotechnological modifications material structures characterization processing properties and applications after the introduction which summarizes the importance of biopolymer in the market the book covers almost all the topics related to polysaccharides biofibers bioplastics biocomposites natural rubber gums bacterial and blood compatible polymers and applications of biopolymers in various fields this series represents a compilation of the biosafety consensus documents developed by the oecd working group on harmonisation of

regulatory oversight in biotechnology over the periods 2011 12 volume 5 and 2013 15 volume 6 this book is compiled of 24 chapters divided into 4 sections section a focuses on toxicity of organic and inorganic insecticides organophosphorus insecticides toxicity of fenitrothion and permethrin and dichlorodiphenyltrichloroethane ddt section b is dedicated to vector control using insecticides biological control of mosquito larvae by bacillus thuringiensis metabolism of pyrethroids by mosquito cytochrome p40 susceptibility status of aedes aegypti etc section c describes bioactive natural products from sapindacea management of potato pests flower thrips mango mealy bug pear psylla grapes pests small fruit production boll weevil and tsetse fly using insecticides section d provides information on insecticide resistance in natural population of malaria vector role of anopheles gambiae p450 cytochrome genetic toxicological profile of carbofuran and pirimicarp carbamic insecticides etc the subject matter in this book should attract the reader s concern to support rational decisions regarding the use of pesticides since the dawn of recorded history and probably even before men and women have been grasping at the mechanisms by which they themselves exist only relatively recently did this grasp yield anything of substance and only within the last several decades did the proteins play a pivotal role in this existence in this expose on the topic of protein structure some of the current issues in this scientific field are discussed the aim is that a non expert can gain some appreciation for the intricacies involved and in the current state of affairs the expert meanwhile we hope can gain a deeper understanding of the topic most will agree that gel electrophoresis is one of the basic pillars of molecular biology this coined terminology covers a myriad of gel based separation approaches that rely mainly on fractionating biomolecules under electrophoretic current based mainly on the molecular weight in this book the authors try to present simplified fundamentals of gel based separation together with exemplarily applications of this versatile technique we try to keep the contents of the book crisp and comprehensive and hope that it will receive overwhelming interest and deliver benefits and valuable information to the readers mycobacterium tuberculosis in an attempt to understand the extent to which the bacilli has adapted itself to the host and to its final target on the other hand there is a section in which other specialists discuss how to manipulate this immune response to obtain innovative prophylactic and therapeutic approaches to truncate the intimal co evolution between mycobacterium tuberculosis and the homo sapiens bioremediation and sustainability is an up to date and comprehensive treatment of research and applications for some of the most important low cost green emerging technologies in chemical and environmental engineering sustainable development requires the development and promotion of environmental management and a constant search for green technologies to treat a wide range of aquatic and terrestrial habitats contaminated by increasing anthropogenic activities with the main sources of contaminants being the chemical industries bioremediation is a technique that uses living organisms in order to degrade or transform contaminants into their less toxic forms it is based on the existence of microorganisms with the capacity to attack the compounds on the enzymatic level bioremediation is an increasingly popular low cost alternative to conventional methods for treating wastes and contaminated media with the possibility to degrade these contaminants using natural microbial activity mediated by different consortia of microbes over the last few years the scientific literature has revealed the progressive

emergence of various bioremediation techniques bioremediation and sustainability presents an up to date and comprehensive collection of chapters prepared in bioremediation technology research and applications the strategies covered in this volume can be applied in situ or ex situ depending on the site in which they will be applied in situ is the treatment done in the site of the contamination and ex situ involves the removal of soil or water to subsequent treatment there is a wide variety of techniques that have been developed in the past and are covered in this volume such as natural attenuation bioaugmentation biostimulation biosorption composting phytoremediation rhizoremediation and bioleaching the discovery of salmonella in swine in 1885 marked the beginning of intense efforts to control salmonellae that have continued for the past 127 years the majority of foodborne outbreaks are caused by only a few of the 2500 known serovars while progress has been made on many fronts salmonellosis has yet to be eliminated in either developed or in developing nations this work represents the collective contributions of authors from all around the world chapters in this book address a wide array of topics related to understanding and controlling this pathogen including salmonella as studied in the environment air and in food products virulence and pathogenicity control by bacteriophages and other antimicrobials bacterial adaptation etc the medical achievements of the post war years rank as one of the supreme epochs of human endeavour advances in surgical technique new ideas about the nature of disease and huge innovations in drug manufacture vanquished most common causes of early death but since the mid 1970s the rate of development has slowed and the future of medicine is uncertain how has this happened james le fanu s hugely acclaimed survey of the twelve definitive moments of modern medicine and the intellectual vacuum which followed them has been fully revised and updated for this edition the rise and fall of modern medicine is both riveting drama and a clarion call for change since the publication of the last edition of principles and practice of clinical bacteriology our understanding of bacterial genetics and pathogenicity has been transformed due to the availability of whole genome sequences and new technologies such as proteomics and transcriptomics the present completely revised second edition of this greatly valued work has been developed to integrate this new knowledge in a clinically relevant manner principles and practice of clinical bacteriology second edition provides the reader with invaluable information on the parasitology pathogenesis epidemiology and treatment strategies for each pathogen while offering a succinct outline of the best current methods for diagnosis of human bacterial diseases with contributions from an international team of experts in the field this book is an invaluable reference work for all clinical microbiologists infectious disease physicians public health physicians and trainees within these disciplines molecular dynamics is a two volume compendium of the ever growing applications of molecular dynamics simulations to solve a wider range of scientific and engineering challenges the contents illustrate the rapid progress on molecular dynamics simulations in many fields of science and technology such as nanotechnology energy research and biology due to the advances of new dynamics theories and the extraordinary power of today s computers this second book begins with an introduction of molecular dynamics simulations to macromolecules and then illustrates the computer experiments using molecular dynamics simulations in the studies of synthetic and biological macromolecules plasmas and nanomachines coverage of

this book includes complex formation and dynamics of polymers dynamics of lipid bilayers peptides dna rna and proteins complex liquids and plasmas dynamics of molecules on surfaces nanofluidics and nanomachines phylogenetic classification of nitrogen fixing organisms physiology of nitrogen fixation in free living heterotrophs nitrogen fixation by photosynthetic bacteria nitrogen fixation in cyanobacteria nitrogen fixation by methanogenic bacteria associative nitrogen fixing bacteria actinorhizal symbioses ecology of bradyrhizobium and rhizobium the rhizobium infection process physiology of nitrogen fixing legume nodules compartments and functions hydrogen cycling in symbiotic bacteria evolution of nitrogen fixing symbioses the rhizobium symbiosis of the nonlegume parasponia genetic analysis of rhizobium nodulation nodulins in root nodule development plant genetics of symbiotic nitrogen fixation molecular genetics of bradyrhizobium symbioses the enzymology of molybdenum dependent nitrogen fixation alternative nitrogen fixation systems biochemical genetics of nitrogenase regulation of nitrogen fixation genes in free living and symbiotic bacteria isolated iron molybdenum cofactor of nitrogenase

Native Aquatic Bacteria: Enumeration, Activity, and Ecology 1979 methane is a powerful greenhouse gas and is estimated to be responsible for approximately one fifth of man made global warming per kilogram it is 25 times more powerful than carbon dioxide over a 100 year time horizon and global warming is likely to enhance methane release from a number of sources current natural and man made sources include many where methane producing micro organisms can thrive in anaerobic conditions particularly ruminant livestock rice cultivation landfill wastewater wetlands and marine sediments this timely and authoritative book provides the only comprehensive and balanced overview of our current knowledge of sources of methane and how these might be controlled to limit future climate change it describes how methane is derived from the anaerobic metabolism of micro organisms whether in wetlands or rice fields manure landfill or wastewater or the digestive systems of cattle and other ruminant animals it highlights how sources of methane might themselves be affected by climate change it is shown how numerous point sources of methane have the potential to be more easily addressed than sources of carbon dioxide and therefore contribute significantly to climate change mitigation in the 21st century publisher s description

Methane and Climate Change 2010 includes a revised taxonomic outline for the phyla bacteroidetes planctomycetes chlamydiae spirochetes fibrobacteres fusobacteria acidobacteria verrucomicrobia dictyoglomi and gemmatimonadetes based upon the silva project as well as a description of more than 153 genera in 29 families includes many medically important taxa

Selected Water Resources Abstracts 1973 meiosis is the key process underlying sexual reproduction in eukaryotes occurring in single celled eukaryotes and in most multicellular eukaryotes including animals and most plants thus meiosis is of considerable interest both at the scientific level and at the level of natural human curiosity about sexual reproduction improved understanding of important aspects of meiosis has emerged in recent years and major questions are starting to be answered such as how does meiosis occur at the molecular level how did meiosis and sex arise during evolution what is the major adaptive function of meiosis and sex in addition changing perspectives on meiosis and sex have led to the question how should meiosis be taught this book proposes answers to these questions with extensive supporting references to the current literature

Bergey's Manual of Systematic Bacteriology 2011-02-04 this handbook focuses on biopolymers for both environmental and biomedical applications it shows recent advances in technology in all areas from chemical synthesis or biosynthesis to end use applications these areas have not been covered in a single book before and they include biopolymers for chemical and biotechnological modifications material structures characterization processing properties and applications after the introduction which summarizes the importance of biopolymer in the market the book covers almost all the topics related to polysaccharides biofibers bioplastics biocomposites natural rubber gums bacterial and blood compatible polymers and applications of biopolymers in various fields

Meiosis 2013-09-11 this series represents a compilation of the biosafety consensus documents developed by the oecd working group on harmonisation of regulatory oversight in biotechnology over the periods 2011 12 volume 5 and 2013 15 volume 6

Biopolymers 2011-08-16 this book is compiled of 24 chapters divided into 4 sections section a focuses on toxicity of organic and inorganic insecticides organophosphorus insecticides toxicity of fenitrothion and permethrin and dichlorodiphenyltrichloroethane ddt section b is dedicated to vector control using insecticides biological control of mosquito larvae by bacillus thuringiensis metabolism of pyrethroids by mosquito cytochrome p40 susceptibility status of aedes aegypti etc section c describes bioactive natural products from sapindacea management of potato pests flower thrips mango mealy bug pear psylla grapes pests small fruit production boll weevil and tsetse fly using insecticides section d provides information on insecticide resistance in natural population of malaria vector role of anopheles gambiae p450 cytochrome genetic toxicological profile of carbofuran and pirimicarp carbamic insecticides etc the subject matter in this book should attract the reader s concern to support rational decisions regarding the use of pesticides

Heavy Metals in Water (excluding Mercury) 1977 since the dawn of recorded history and probably even before men and women have been grasping at the mechanisms by which they themselves exist only relatively recently did this grasp yield anything of substance and only within the last several decades did the proteins play a pivotal role in this existence in this expose on the topic of protein structure some of the current issues in this scientific field are discussed the aim is that a non expert can gain some appreciation for the intricacies involved and in the current state of affairs the expert meanwhile we hope can gain a deeper understanding of the topic

Bacterial Indicators/health Hazards Associated with Water 1977 most will agree that gel electrophoresis is one of the basic pillars of molecular biology this coined terminology covers a myriad of gel based separation approaches that rely mainly on fractionating biomolecules under electrophoretic current based mainly on the molecular weight in this book the authors try to present simplified fundamentals of gel based separation together with exemplarily applications of this versatile technique we try to keep the contents of the book crisp and comprehensive and hope that it will receive overwhelming interest and deliver benefits and valuable information to the readers

Harmonisation of Regulatory Oversight in Biotechnology Safety Assessment of Transgenic Organisms in the Environment, Volume 5 OECD Consensus Documents 2016-04-05 mycobacterium tuberculosis in an attempt to understand the extent to which the bacilli has adapted itself to the host and to its final target on the other hand there is a section in which other specialists discuss how to manipulate this immune response to obtain innovative prophylactic and therapeutic approaches to truncate the intimal co evolution between mycobacterium tuberculosis and the homo sapiens

Journal 1948 bioremediation and sustainability is an up to date and comprehensive treatment of research and applications for some of the most important low cost green emerging technologies in chemical and environmental engineering sustainable development requires the development and promotion of environmental management and a constant search for green technologies to treat a wide range of aquatic and terrestrial habitats contaminated by increasing anthropogenic activities with the main sources of contaminants being the chemical industries bioremediation is a technique that uses living organisms in order to degrade or transform contaminants

into their less toxic forms it is based on the existence of microorganisms with the capacity to attack the compounds on the enzymatic level bioremediation is an increasingly popular low cost alternative to conventional methods for treating wastes and contaminated media with the possibility to degrade these contaminants using natural microbial activity mediated by different consortia of microbes over the last few years the scientific literature has revealed the progressive emergence of various bioremediation techniques bioremediation and sustainability presents an up to date and comprehensive collection of chapters prepared in bioremediation technology research and applications the strategies covered in this volume can be applied in situ or ex situ depending on the site in which they will be applied in situ is the treatment done in the site of the contamination and ex situ involves the removal of soil or water to subsequent treatment there is a wide variety of techniques that have been developed in the past and are covered in this volume such as natural attenuation bioaugmentation biostimulation biosorption composting phytoremediation rhizoremediation and bioleaching

Insecticides 2012-02-15 the discovery of salmonella in swine in 1885 marked the beginning of intense efforts to control salmonellae that have continued for the past 127 years the majority of foodborne outbreaks are caused by only a few of the 2500 known serovars while progress has been made on many fronts salmonellosis has yet to be eliminated in either developed or in developing nations this work represents the collective contributions of authors from all around the world chapters in this book address a wide array of topics related to understanding and controlling this pathogen including salmonella as studied in the environment air and in food products virulence and pathogenicity control by bacteriophages and other antimicrobials bacterial adaptation etc

Protein Structure 2012-04-20 the medical achievements of the post war years rank as one of the supreme epochs of human endeavour advances in surgical technique new ideas about the nature of disease and huge innovations in drug manufacture vanquished most common causes of early death but since the mid 1970s the rate of development has slowed and the future of medicine is uncertain how has this happened james le fanu s hugely acclaimed survey of the twelve definitive moments of modern medicine and the intellectual vacuum which followed them has been fully revised and updated for this edition the rise and fall of modern medicine is both riveting drama and a clarion call for change

Gel Electrophoresis 2012-04-04 since the publication of the last edition of principles and practice of clinical bacteriology our understanding of bacterial genetics and pathogenicity has been transformed due to the availability of whole genome sequences and new technologies such as proteomics and transcriptomics the present completely revised second edition of this greatly valued work has been developed to integrate this new knowledge in a clinically relevant manner principles and practice of clinical bacteriology second edition provides the reader with invaluable information on the parasitology pathogenesis epidemiology and treatment strategies for each pathogen while offering a succinct outline of the best current methods for diagnosis of human bacterial diseases with contributions from an international team of experts in the field this book is an invaluable reference work for all clinical microbiologists infectious disease physicians public health physicians and trainees within these disciplines

Algal Growth, Aqueous Factors Other Than Nitrogen and Phosphorus 1966 molecular dynamics is a two volume compendium of the ever growing applications of molecular dynamics simulations to solve a wider range of scientific and engineering challenges the contents illustrate the rapid progress on molecular dynamics simulations in many fields of science and technology such as nanotechnology energy research and biology due to the advances of new dynamics theories and the extraordinary power of today s computers this second book begins with an introduction of molecular dynamics simulations to macromolecules and then illustrates the computer experiments using molecular dynamics simulations in the studies of synthetic and biological macromolecules plasmas and nanomachines coverage of this book includes complex formation and dynamics of polymers dynamics of lipid bilayers peptides dna rna and proteins complex liquids and plasmas dynamics of molecules on surfaces nanofluidics and nanomachines

Algal Growth Aqueous Factors Other Than Nitrogen and Phosphorus 1966 phylogenetic classification of nitrogen fixing organisms physiology of nitrogen fixation in free living heterotrophs nitrogen fixation by photosynthetic bacteria nitrogen fixation in cyanobacteria nitrogen fixation by methanogenic bacteria associative nitrogen fixing bacteria actinorhizal symbioses ecology of bradyrhizobium and rhizobium the rhizobium infection process physiology of nitrogen fixing legume nodules compartments and functions hydrogen cycling in symbiotic bacteria evolution of nitrogen fixing symbioses the rhizobium symbiosis of the nonlegume parasponia genetic analysis of rhizobium nodulation nodulins in root nodule development plant genetics of symbiotic nitrogen fixation molecular genetics of bradyrhizobium symbioses the enzymology of molybdenum dependent nitrogen fixation alternative nitrogen fixation systems biochemical genetics of nitrogenase regulation of nitrogen fixation genes in free living and symbiotic bacteria isolated iron molybdenum cofactor of nitrogenase

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NIOSH Health Survey of Velsicol Pesticide Workers 1978

Biblos, monthly magazine for branch libraries, executive and judicial, and other special libraries 1953

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Fishery Bulletin of the Fish and Wildlife Service 1963

Fishery Bulletin of the 1964

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International bibliography of periodical literature covering all fields of knowledge 1981

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Biological Nitrogen Fixation 1992-04-30

Military Medicine and the Wound Man 1976

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Biogeochemistry and Transformation Potential of Chloroethene Contaminated Sediments at the Groundwater-surface Water Interface 1999

Orbiting Quarantine Facility 1982

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