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cellulose nanoparticles chemistry and fundamentals covers the synthesis characterization and processing of cellulose nanomaterials this textbook is the most concise and readable invertebrates book in terms of detail and pedagogy other texts do not offer boxed readings a second color end of chapter questions or pronunciation guides all phyla of invertebrates are covered comprehensive with an emphasis on unifying characteristics of each group renewable energy is a rapidly expanding field welcomed by many as part of the answer to climate change and energy security concerns this book offers a comprehensive authoritative and up to date overview of this globally expanding field including a thorough review of fluid driven mechanical power heat based systems and light conversion it also examines the challenges involved with the unpredictable nature of renewable energy sources and how these variable energy inputs can be balanced and integrated into a viable energy supply system finally the book discusses both the developing technologies and support policies from around the world this second edition has been extensively revised and updated and remains an invaluable reference text for scientists and professionals involved with the technology policy and implementation of renewable energy it is essential reading for renewable energy courses part of iop series in renewable and sustainable power the minipig in biomedical research is a comprehensive resource for research scientists on the potential and use of the minipig in basic and applied biomedical research and the development of drugs and chemicals written by acknowledged experts in the field and drawing on the authors global contacts and experience with regulatory authorities and the pharmaceutical and other industries this accessible manual ranges widely over the biological scientific and practical uses of the minipig in the laboratory its coverage extends from the minipig s origins anatomy genetics immunology and physiology to its welfare health and husbandry practical dosing and examination procedures surgical techniques and all areas of toxicity testing and the uses of the minipig as a disease model regulatory aspects of its use are considered the reader will find an extensive amount of theoretical and practical information in the pharmacology adme and toxicology chapters which will help scientists and managers when deciding which species to use in basic research drug discovery and pharmacology and toxicology studies of chemicals biotechnology products and devices the book discusses regulatory uses of minipigs in the evaluation of human and veterinary pharmaceuticals medical devices and other classes of xenobiotics it describes features of normal health normal laboratory values and common diseases it also carefully elucidates ethical and legal considerations in their supply housing and transport the result is an all inclusive and up to date manual about the experimental uses of the minipig that describes how to and why and what to expect in the normal combining enthusiasm and experience with critical assessment of its values and potential problems carbon based material for environmental protection and remediation presents an overview of carbon based technologies and processes and examines their usefulness and efficiency for environmental preservation and remediation chapters cover topics ranging from pollutants removal to new processes in materials science written for interested readers with strong scientific and technological backgrounds this book will appeal to scientific advisors at private companies academics and graduate students human communication technology a unique book explaining how perception location communication cognition computation networking propulsion integration of federated internet of robotic things iort and digital platforms are important components of new generation iort applications through continuous real time interaction with the world the 16 chapters in this book discuss new architectures networking paradigms trustworthy structures and platforms for the integration of applications across various business and industrial domains that are needed for the emergence of intelligent things static or mobile in collaborative autonomous fleets these new apps speed up the progress of paradigms of autonomous system design and the proliferation of the internet of robotic things iort collaborative robotic things can communicate with other things in the iort learn independently interact securely with the world people and other things and acquire characteristics that make them self maintaining self aware self healing and fail safe operational due to the ubiquitous nature of collaborative robotic things the iort which binds together the sensors and the objects of robotic things is gaining popularity therefore the information contained in this book will provide readers with a better understanding of this interdisciplinary field audience researchers in various fields including computer science iot artificial intelligence machine learning and big data analytics the expected end of the oil age will lead to increasing focus and reliance on alternative energy conversion devices among which fuel cells have the potential to play an important role not only can phosphoric acid and solid oxide fuel cells already efficiently

convert today s fossil fuels including methane into electricity but other types of fuel cells such as polymer electrolyte membrane fuel cells have the potential to become the cornerstones of a possible future hydrogen economy this handbook offers concise yet comprehensive coverage of the current state of fuel cell research and identifies key areas for future investigation internationally renowned specialists provide authoritative introductions to a wide variety of fuel cell types and hydrogen production technologies and discuss materials and components for these systems sustainability and marketing considerations are also covered including comparisons of fuel cells with alternative technologies lubricants are essential in engineering however more sustainable formulations are needed to avoid adverse effects on the ecosystem bio based lubricant formulations present a promising solution biolubricants science and technology is a comprehensive interdisciplinary and timely review of this important subject initial chapters address the principles of lubrication before systematically reviewing fossil and bio based feedstock resources for biodegradable lubricants further chapters describe catalytic bio chemical functionalisation processes for transformation of feedstocks into commercial products product development relevant legislation life cycle assessment major product groups and specific performance criteria in all major applications final chapters consider markets for biolubricants issues to consider when selecting and using a lubricant lubricant disposal and future trends with its distinguished authors biolubricants science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers as well as researchers and academics with an interest in the subject it provides an essential overview of scientific and technological developments enabling the cost effective improvement of biolubricants something that is crucial for the green future of the lubricant industry a comprehensive interdisciplinary and timely review of bio based lubricant formulations addresses the principles of lubrication reviews fossil and bio based feedstock resources for biodegradable lubricants extracellular and biofluids vesicles evs are highly specialised yet ubiquitous nanoscale messengers secreted by cells with the development of stem cell engineering evs promise to deliver next generation tools in regenerative medicine and tissue engineering as well as in diagnostics a vibrant and promising field this book provides the first resource to the field covering basic cell biology including ev production and intracellular communication this book will provide material scientists and engineers with a foundation to the necessary biology the reader will then learn about the isolation of extracellular vesicles their physicochemical characterisation and therapeutic application of evs in regenerative medicine as well as their potential as biomarkers in medical diagnostic this book will also discuss the regulatory landscape of evs bridging cell biology biomaterials biophysics and biomedical engineering the content of this book is written with a broad interdisciplinary audience in mind researchers new and established will find this a must have on their shelf as a result of knowledge exchange between the academic and industrial worlds this book analyzes the process industries impacted by the digital revolution that accompanies the ongoing energy and environmental transitions process industries 2 first discusses bio industries and analyzes the development of products of microbial origin it then studies all the stages of industrialization that facilitate the progress from research to the production of a finished product as well as industrial management techniques using concrete examples this book presents the instruments of the digital revolution artificial intelligence virtual reality augmented reality the internet of things digital twins while analyzing their impact on the supply chain and operators boxes within the book written by recognized specialists invite both students and professionals who are faced with a changing world to reflect on the industry and the world of tomorrow extraction processes are essential steps in numerous industrial applications from perfume over pharmaceutical to fine chemical industry nowadays there are three key aspects in industrial extraction processes economy and quality as well as environmental considerations this book presents a complete picture of current knowledge on green extraction in terms of innovative processes original methods alternative solvents and safe products and provides the necessary theoretical background as well as industrial application examples and environmental impacts each chapter is written by experts in the field and the strong focus on green chemistry throughout the book makes this book a unique reference source this book is intended to be a first step towards a future cooperation in a new extraction of natural products built to improve both fundamental and green parameters of the techniques and to increase the amount of extracts obtained from renewable resources with a minimum consumption of energy and solvents and the maximum safety for operators and the environment this publication examines the opportunities and challenges for business and government associated with technologies bringing about the next production revolution these include a variety of digital technologies e g the internet of things and advanced robotics industrial biotechnology 3d printing new materials and nanotechnology some of these technologies are already used in production while others will be available in the near future all are developing rapidly as these technologies transform the production and the distribution of goods and services they will have far reaching consequences for productivity skills income distribution well being and the environment the more that governments and firms understand how production could develop in the near future the better placed they will be to address the risks and reap the benefits bioremediation and bioeconomy provides a common platform for scientists from various

backgrounds to find sustainable solutions to environmental issues including the ever growing lack of water resources which are under immense pressure due to land degradation pollution population explosion urbanization and global economic development in addition large amounts of toxic waste have been dispersed in thousands of contaminated sites and bioremediation is emerging as an invaluable tool for environmental clean up the book addresses these challenge by presenting innovative and cost effective solutions to decontaminate polluted environments including usage of contaminated land and waste water for bioproducts such as natural fibers biocomposites and fuels to boost the economy users will find a guide that helps scientists from various backgrounds find sustainable solutions to these environmental issues as they address the topical issues crucial for understanding new and innovative approaches for sustainable development provides a compilation of new information on phytoremediation not found in other books in the present market the first book to link phytoremediation and the bioeconomy includes strategies to utilize contaminated soils for producing bioresources and co generation of value chain and value additions products this book deals with a group of architectured materials these are hybrid materials in which the constituents even strongly dissimilar ones are combined in a given topology and geometry to provide otherwise conflicting properties the hybridization presented in the book occurs at various levels from the molecular to the macroscopic say sub centimeter ones this monograph represents a collection of programmatic chapters defining archimats and summarizing the results obtained by using the geometry inspired materials design the area of architectured or geometry inspired materials has reached a certain level of maturity and visibility for a comprehensive presentation in book form it is written by a group of authors who are active researchers working on various aspects of architectured materials through its 14 chapters the book provides definitions and descriptions of the archetypes of architectured materials and addresses the various techniques in which they can be designed optimized and manufactured it covers a broad realm of archimats from the ones occurring in nature to those that have been engineered and discusses a range of their possible applications the book provides inspiring and scientifically profound yet entertaining reading for the materials science community and beyond this book provides practical information on obtaining and using a wide variety of plant based reagents for different sectors addressing the needs and challenges in a single resource the chapters complement each other seamlessly and present contributions from reputed international researchers and renowned professionals from industry covering the latest efforts in the field the book serves as the starting point for future collaborations in the new area plant based green chemistry between research industry and education covering large ecologic and economic applications perfume cosmetic pharmaceutical food ingredients nutraceuticals biofuels or fine chemicals industries this book is aimed at professionals from industries academicians engaged in plant based green chemistry researchers and graduate level students but will also be useful to food technologists and students and researchers involved in natural products chemistry dorothy wertz and john fletcher pioneered the first international study of ethical and social issues in genetics in 18 nations this book reports and discusses their second and more representative study in 36 nations the survey focused on actual situations that occur in the practice of medical genetics presented as case vignettes that can also be used in teaching and policy discussion among the issues discussed are privacy prenatal diagnosis patient autonomy directiveness in counseling sex selection forensic dna banking genetic discrimination and eugenics this is dorothy wertz s final book as she died in april 2003 it is a one of a kind cross cultural study of complex ethical issues in the uses of genetic information no one else has attempted to look at the international aspects of medical genetics on such a broad scale the results provide a resource for discussion both within and among nations much bioethical and policy discussion now occurs in an information vacuum the survey showed that what people would do and their reasons for doing it differed considerably from what ethicists think they should do many will be surprised at the results especially in nations where bioethical discussion is just beginning genetics and ethics in global perspective is of interest to medical geneticists genetic counselors social scientists and anthropologists who study cross cultural issues bioethicists and bioethics centers and health policy makers this book focuses on food non food and industrial packaging applications of polymers blends nanostructured materials macro micro and nanocomposites and renewable and biodegradable materials it details physical thermal and barrier properties as well as sustainability recycling and regulatory issues the book emphasizes interdis this book covers interesting research topics and the use of natural resources for medical treatments in some severe diseases the most important message is to have native foods which contain high amount of active compounds that can be used as a medicinal plant most pharmaceutical drugs were discovered from plants and still ongoing research will have to predict such new active compounds as anti diseases i do believe this book will add significant knowledge to medical societies as well as can be used for postgraduate students emerging contaminants are chemical and biological agents for which there is growing concern about their potential health and environmental effects the threat lies in the fact that the sources fate and toxicology of most of these compounds have not yet been studied emerging contaminants therefore include a large number of both recently discovered and well known compounds such as rare earth elements viruses

bacteria nanomaterials microplastics pharmaceuticals endocrine disruptors hormones personal care products cosmetics pesticides surfactants and industrial chemicals emerging contaminants have been found in many daily products and some of them accumulate in the food chain correlations have been observed between aquatic pollution by emerging contaminants and discharges from wastewater treatment plants most actual remediation methods are not effective at removing emerging contaminants this second volume presents comprehensive knowledge on emerging contaminants with a focus on remediation

Holt Biosources 1998 cellulose nanoparticles chemistry and fundamentals covers the synthesis characterization and processing of cellulose nanomaterials

Holt Biosources 1998 this textbook is the most concise and readable invertebrates book in terms of detail and pedagogy other texts do not offer boxed readings a second color end of chapter questions or pronunciation guides all phyla of invertebrates are covered comprehensive with an emphasis on unifying characteristics of each group

Holt Biosources 1998-01-01 renewable energy is a rapidly expanding field welcomed by many as part of the answer to climate change and energy security concerns this book offers a comprehensive authoritative and up to date overview of this globally expanding field including a thorough review of fluid driven mechanical power heat based systems and light conversion it also examines the challenges involved with the unpredictable nature of renewable energy sources and how these variable energy inputs can be balanced and integrated into a viable energy supply system finally the book discusses both the developing technologies and support policies from around the world this second edition has been extensively revised and updated and remains an invaluable reference text for scientists and professionals involved with the technology policy and implementation of renewable energy it is essential reading for renewable energy courses part of iop series in renewable and sustainable power

Biotechnology 1998 the minipig in biomedical research is a comprehensive resource for research scientists on the potential and use of the minipig in basic and applied biomedical research and the development of drugs and chemicals written by acknowledged experts in the field and drawing on the authors global contacts and experience with regulatory authorities and the pharmaceutical and other industries this accessible manual ranges widely over the biological scientific and practical uses of the minipig in the laboratory its coverage extends from the minipig s origins anatomy genetics immunology and physiology to its welfare health and husbandry practical dosing and examination procedures surgical techniques and all areas of toxicity testing and the uses of the minipig as a disease model regulatory aspects of its use are considered the reader will find an extensive amount of theoretical and practical information in the pharmacology adme and toxicology chapters which will help scientists and managers when deciding which species to use in basic research drug discovery and pharmacology and toxicology studies of chemicals biotechnology products and devices the book discusses regulatory uses of minipigs in the evaluation of human and veterinary pharmaceuticals medical devices and other classes of xenobiotics it describes features of normal health normal laboratory values and common diseases it also carefully elucidates ethical and legal considerations in their supply housing and transport the result is an all inclusive and up to date manual about the experimental uses of the minipig that describes how to and why and what to expect in the normal combining enthusiasm and experience with critical assessment of its values and potential problems

Lab Mnl Tg Ieb in Biosources 1998 carbon based material for environmental protection and remediation presents an overview of carbon based technologies and processes and examines their usefulness and efficiency for environmental preservation and remediation chapters cover topics ranging from pollutants removal to new processes in materials science written for interested readers with strong scientific and technological backgrounds this book will appeal to scientific advisors at private companies academics and graduate students

Globe Biology Lab Program Ate C99 1998-12-01 human communication technology a unique book explaining how perception location communication cognition computation networking propulsion integration of federated internet of robotic things iort and digital platforms are important components of new generation iort applications through continuous real time interaction with the world the 16 chapters in this book discuss new architectures networking paradigms trustworthy structures and platforms for the integration of applications across various business and industrial domains that are needed for the emergence of intelligent things static or mobile in collaborative autonomous fleets these new apps speed up the progress of paradigms of autonomous system design and the proliferation of the internet of robotic things iort collaborative robotic things can communicate with other things in the iort learn independently interact securely with the world people and other things and acquire characteristics that make them self maintaining self aware self healing and fail safe operational due to the ubiquitous nature of collaborative robotic things the iort which binds together the sensors and the objects of robotic things is gaining popularity therefore the information contained in this book will provide readers with a better understanding of this interdisciplinary field audience researchers in various fields including computer science iot artificial intelligence machine learning and big data analytics

Inquiry Skills Development 1998-01-27 the expected end of the oil age will lead to increasing focus and reliance on alternative energy conversion devices among which fuel cells have the potential to play an important role not only can phosphoric acid and solid oxide fuel cells already efficiently convert today s fossil fuels

including methane into electricity but other types of fuel cells such as polymer electrolyte membrane fuel cells have the potential to become the cornerstones of a possible future hydrogen economy this handbook offers concise yet comprehensive coverage of the current state of fuel cell research and identifies key areas for future investigation internationally renowned specialists provide authoritative introductions to a wide variety of fuel cell types and hydrogen production technologies and discuss materials and components for these systems sustainability and marketing considerations are also covered including comparisons of fuel cells with alternative technologies

Children's Books in Print, 2007 2006 lubricants are essential in engineering however more sustainable formulations are needed to avoid adverse effects on the ecosystem bio based lubricant formulations present a promising solution biolubricants science and technology is a comprehensive interdisciplinary and timely review of this important subject initial chapters address the principles of lubrication before systematically reviewing fossil and bio based feedstock resources for biodegradable lubricants further chapters describe catalytic bio chemical functionalisation processes for transformation of feedstocks into commercial products product development relevant legislation life cycle assessment major product groups and specific performance criteria in all major applications final chapters consider markets for biolubricants issues to consider when selecting and using a lubricant lubricant disposal and future trends with its distinguished authors biolubricants science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers as well as researchers and academics with an interest in the subject it provides an essential overview of scientific and technological developments enabling the cost effective improvement of biolubricants something that is crucial for the green future of the lubricant industry a comprehensive interdisciplinary and timely review of bio based lubricant formulations addresses the principles of lubrication reviews fossil and bio based feedstock resources for biodegradable lubricants

Ecological Interaction of Abiotic and Biotic Factors in the Environment that Elicits Community Change Over Time (evidenced in the Primary Succession of a Southwestern Michigan Sand Dune) 2005 extracellular and biofluids vesicles evs are highly specialised yet ubiquitous nanoscale messengers secreted by cells with the development of stem cell engineering evs promise to deliver next generation tools in regenerative medicine and tissue engineering as well as in diagnostics a vibrant and promising field this book provides the first resource to the field covering basic cell biology including ev production and intracellular communication this book will provide material scientists and engineers with a foundation to the necessary biology the reader will then learn about the isolation of extracellular vesicles their physicochemical characterisation and therapeutic application of evs in regenerative medicine as well as their potential as biomarkers in medical diagnostic this book will also discuss the regulatory landscape of evs bridging cell biology biomaterials biophysics and biomedical engineering the content of this book is written with a broad interdisciplinary audience in mind researchers new and established will find this a must have on their shelf

Children's Books in Print 1999-12 as a result of knowledge exchange between the academic and industrial worlds this book analyzes the process industries impacted by the digital revolution that accompanies the ongoing energy and environmental transitions process industries 2 first discusses bio industries and analyzes the development of products of microbial origin it then studies all the stages of industrialization that facilitate the progress from research to the production of a finished product as well as industrial management techniques using concrete examples this book presents the instruments of the digital revolution artificial intelligence virtual reality augmented reality the internet of things digital twins while analyzing their impact on the supply chain and operators boxes within the book written by recognized specialists invite both students and professionals who are faced with a changing world to reflect on the industry and the world of tomorrow

Books in Print Supplement 2002 extraction processes are essential steps in numerous industrial applications from perfume over pharmaceutical to fine chemical industry nowadays there are three key aspects in industrial extraction processes economy and quality as well as environmental considerations this book presents a complete picture of current knowledge on green extraction in terms of innovative processes original methods alternative solvents and safe products and provides the necessary theoretical background as well as industrial application examples and environmental impacts each chapter is written by experts in the field and the strong focus on green chemistry throughout the book makes this book a unique reference source this book is intended to be a first step towards a future cooperation in a new extraction of natural products built to improve both fundamental and green parameters of the techniques and to increase the amount of extracts obtained from renewable resources with a minimum consumption of energy and solvents and the maximum safety for operators and the environment

Energy 1980 this publication examines the opportunities and challenges for business and government associated with technologies bringing about the next production revolution these include a variety of digital technologies e g the internet of things and advanced robotics industrial biotechnology 3d printing new materials and

nanotechnology some of these technologies are already used in production while others will be available in the near future all are developing rapidly as these technologies transform the production and the distribution of goods and services they will have far reaching consequences for productivity skills income distribution well being and the environment the more that governments and firms understand how production could develop in the near future the better placed they will be to address the risks and reap the benefits

Energy: a Continuing Bibliography with Indexes 1980 bioremediation and bioeconomy provides a common platform for scientists from various backgrounds to find sustainable solutions to environmental issues including the ever growing lack of water resources which are under immense pressure due to land degradation pollution population explosion urbanization and global economic development in addition large amounts of toxic waste have been dispersed in thousands of contaminated sites and bioremediation is emerging as an invaluable tool for environmental clean up the book addresses these challenge by presenting innovative and cost effective solutions to decontaminate polluted environments including usage of contaminated land and waste water for bioproducts such as natural fibers biocomposites and fuels to boost the economy users will find a guide that helps scientists from various backgrounds find sustainable solutions to these environmental issues as they address the topical issues crucial for understanding new and innovative approaches for sustainable development provides a compilation of new information on phytoremediation not found in other books in the present market the first book to link phytoremediation and the bioeconomy includes strategies to utilize contaminated soils for producing bioresources and co generation of value chain and value additions products

Sea Grant Newsletter Index 1968 this book deals with a group of architectured materials these are hybrid materials in which the constituents even strongly dissimilar ones are combined in a given topology and geometry to provide otherwise conflicting properties the hybridization presented in the book occurs at various levels from the molecular to the macroscopic say sub centimeter ones this monograph represents a collection of programmatic chapters defining archimats and summarizing the results obtained by using the geometry inspired materials design the area of architectured or geometry inspired materials has reached a certain level of maturity and visibility for a comprehensive presentation in book form it is written by a group of authors who are active researchers working on various aspects of architectured materials through its 14 chapters the book provides definitions and descriptions of the archetypes of architectured materials and addresses the various techniques in which they can be designed optimized and manufactured it covers a broad realm of archimats from the ones occurring in nature to those that have been engineered and discusses a range of their possible applications the book provides inspiring and scientifically profound yet entertaining reading for the materials science community and beyond

Sea Grant Newsletter Index, 1968-72 1973 this book provides practical information on obtaining and using a wide variety of plant based reagents for different sectors addressing the needs and challenges in a single resource the chapters complement each other seamlessly and present contributions from reputed international researchers and renowned professionals from industry covering the latest efforts in the field the book serves as the starting point for future collaborations in the new area plant based green chemistry between research industry and education covering large ecologic and economic applications perfume cosmetic pharmaceutical food ingredients nutraceuticals biofuels or fine chemicals industries this book is aimed at professionals from industries academicians engaged in plant based green chemistry researchers and graduate level students but will also be useful to food technologists and students and researchers involved in natural products chemistry

Scientific and Technical Aerospace Reports 1981 dorothy wertz and john fletcher pioneered the first international study of ethical and social issues in genetics in 18 nations this book reports and discusses their second and more representative study in 36 nations the survey focused on actual situations that occur in the practice of medical genetics presented as case vignettes that can also be used in teaching and policy discussion among the issues discussed are privacy prenatal diagnosis patient autonomy directiveness in counseling sex selection forensic dna banking genetic discrimination and eugenics this is dorothy wertz s final book as she died in april 2003 it is a one of a kind cross cultural study of complex ethical issues in the uses of genetic information no one else has attempted to look at the international aspects of medical genetics on such a broad scale the results provide a resource for discussion both within and among nations much bioethical and policy discussion now occurs in an information vacuum the survey showed that what people would do and their reasons for doing it differed considerably from what ethicists think they should do many will be surprised at the results especially in nations where bioethical discussion is just beginning genetics and ethics in global perspective is of interest to medical geneticists genetic counselors social scientists and anthropologists who study cross cultural issues bioethicists and bioethics centers and health policy

makers

Cellulose Nanoparticles Volume 1 2021-07-09 this book focuses on food non food and industrial packaging applications of polymers blends nanostructured materials macro micro and nanocomposites and renewable and biodegradable materials it details physical thermal and barrier properties as well as sustainability recycling and regulatory issues the book emphasizes interdis

The Software Encyclopedia 1986 this book covers interesting research topics and the use of natural resources for medical treatments in some severe diseases the most important message is to have native foods which contain high amount of active compounds that can be used as a medicinal plant most pharmaceutical drugs were discovered from plants and still ongoing research will have to predict such new active compounds as anti diseases i do believe this book will add significant knowledge to medical societies as well as can be used for postgraduate students

Biology of the Invertebrates 2014-03-01 emerging contaminants are chemical and biological agents for which there is growing concern about their potential health and environmental effects the threat lies in the fact that the sources fate and toxicology of most of these compounds have not yet been studied emerging contaminants therefore include a large number of both recently discovered and well known compounds such as rare earth elements viruses bacteria nanomaterials microplastics pharmaceuticals endocrine disruptors hormones personal care products cosmetics pesticides surfactants and industrial chemicals emerging contaminants have been found in many daily products and some of them accumulate in the food chain correlations have been observed between aquatic pollution by emerging contaminants and discharges from wastewater treatment plants most actual remediation methods are not effective at removing emerging contaminants this second volume presents comprehensive knowledge on emerging contaminants with a focus on remediation

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