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Plastics in Coastal and Marine Environments Nelson Guillermo Rangel Buitrago,2025-11-01 Plastics in Coastal and Marine Environments A Global Crisis is the first foundational reference book focused on plastics and their impacts on coasts and oceans Plastic litter is one of the most pervasive and fastest growing anthropogenic alterations of the world s coasts and oceans and its magnitude distribution and collateral effects have been suggested as a geological indicator of the Anthropocene stage and specifically of the Plasticene age The chapters of the book are arranged to follow a narrative that will allow readers to understand the plastic problem in coastal and marine environments The book begins with the invention of plastics and finishes with their indelible mark on Earth through new types of rocks generated by plastic production and use the Plasticene era It concludes with possible strategies to tackle the inexorable rising of plastic litter in coastal and marine environments Combining core theory and diverse strategies and case studies Plastics in Coastal and Marine Environments A Global Crisis is an essential reference for researchers in oceanographers geology and biologists Includes global multidisciplinary case studies Covers the entire lifecycle of plastic and its impacts Presents a novel chapter about Plastics in the Geologic Record **Microplastics in Human Consumption** E. V. Ramasamy,Ajay Kumar Harit,2023-02-23 This book highlights plastic pollution especially microplastics and the consequences on the environment and on the human diet through food chain web transmission and contamination through processing and packaging of various human food items including water and beverages This book provides a detailed outlook on the microplastics their origin distribution categories presence in human food items and their impact on the ecosystem organisms and so forth It covers updated information on microplastic contamination in the biotic and abiotic products of the sea ocean the contamination of microplastics in drinking water bottled water honey sugar and so forth Features Discusses the presence of microplastics in matrices prone to human consumption Includes general information on microplastics their origin types shapes size and nomenclature Reviews microplastics in different types of human consumable items Illustrates fundamental methods and techniques used in microplastics research Explores overall impacts of microplastics in the organisms contaminated with the same This book is aimed at researchers graduate students and faculty members interested in plastic pollution microplastics environmental science food consumption and analysis The Year-Round Hoophouse Pam Dawling,2018-11-13 Design and build a hoophouse or polytunnel and grow abundant produce year round in any climate The Year Round Hoophouse is the comprehensive guide to designing and building a hoophouse and making a success of growing abundant delicious fresh produce all year whatever your climate and land size Chapters include Hoophouse siting size style frame construction and tools Bed layout soil crop rotations and extensive coverage of various crops for all seasons Organic solutions to pests and diseases Disaster preparation Tested resources for each chapter The Year Round Hoophouse is ideal for farmers who wish to move into protected growing as well as beginning farmers in rural and urban spaces It is an essential reference resource for

professors and students of courses in sustainable agriculture as well as interns and apprentices learning on the job Growing in hoophouses also known as high tunnels or polytunnels reduces the impact of an increasingly unpredictable climate on crops mitigates soil erosion extends the growing season keeps leafy greens alive through the winter and enables growers to supply more regional food needs   Green Solutions for Sustainability Rasaq Olawale Medupin,Kingsley Ukoba,Tien-Chien Jen,2025-10-27 This book is a comprehensive exploration of innovative approaches to addressing pressing global challenges through the lens of sustainability looking into four critical areas biomedical marvels waste polymers corrosion inhibition and nanotechnology It takes multidisciplinary approach bringing together insights from biomedical engineering materials science chemistry and environmental science to offer a holistic perspective on sustainability documenting the latest research and developments in each field Features Addresses pressing environmental challenges and offers practical solutions for a more sustainable future Provides a comprehensive exploration of innovative and eco conscious approaches to addressing a wider range of pressing global challenges Features updated research findings and advancements in each field covered Offers a unique blend of insights from diverse fields such as biomedical engineering materials science chemistry and environmental science Includes real world case studies and success stories This book is aimed at graduate students and researchers in materials environmental and sustainability engineering   **Emerging Contaminants and One Health Approach** Ramsha Khan,Saurabh Shukla,Preeti Chaturvedi Bhargava,Paolo Roccaro,2025-11-28 Emerging contaminants or contaminants of concern which range from microplastics industrial chemicals cosmetics and pesticides to pharmaceuticals and pathogens present unique issues and challenges to communities across the globe The risk assessment and management of these potential hazards require an integrated multi disciplinary approach in connection with the holistic framework of One Health This book explains the need for collaboration between researchers policymakers public health professionals and other stakeholders to address the serious gaps between emerging contaminants and One Health It offers practical strategies and solutions for managing emerging contaminants effectively Features Discusses an important and timely concept of contaminants of concern with the perspective of One Health Focuses on the existing research gaps in managing emerging contaminants Emphasizes the urgent need for collaboration between field experts in biotechnology bioresources bioeconomics environmental engineering and environmental sciences Provides state of the art technological developments their advantages and challenges associated with emerging contaminants Professionals and researchers in Environmental Engineering and Sciences Biosciences and Public Health will benefit from the practical approach strategies and solutions featured in this book It is also great supplementary reading for students taking courses in areas such as Environmental Health Pollution and Environmental Assessment and Environmental Policy and Regulation   **Advances in Marine Environmental Protection: Challenges, Solutions and Perspectives** Mehran Idris Khan,Yen-Chiang Chang,Wen-Hong Liu,2025-04-29 Environments have no boundaries and no borders Managing oceanic environments particularly the threats

and risks of pollution should also consider the shared responsibility of all coastal states Emerging issues for oceanic pollution governance include global changes like rising temperature ocean acidification but also disturbances of ecosystem functioning by plastic and pollution by other emerging contaminants for example noise pollution and deep sea mining These call for efficient and sustainable prevention and restoration strategies such as such as efficient urban and industrial sewage treatment plants efficiently administered transnational marine protected areas and among others sustainable aquaculture extensive small scale fisheries Environmental protection warrants the development of interrelationships between marine sciences relevant industries and ocean governance developing internationally accepted rules and regulations for sustainable ocean management This Research Topic will explore possible new domains of ocean governance and the marine environment from the interdisciplinary perspectives of the rule of law including the international agreement on equal conventions the Convention on Facilitation of International Maritime Traffic the Convention on the International Regulation for Preventing Collisions at Sea and International Convention for the Prevention of Pollution from Ships MARPOL **Oceanography of the Mediterranean Sea** Katrin Schroeder,Jacopo Chiggiato,2022-10-16 Oceanography of the Mediterranean Sea An Introductory Guide provides a comprehensive but concise introduction to the physical oceanography of one of the most fascinating marginal seas the Mediterranean Sea The book is primarily focused on the state of the art understanding of the physical functioning of the Mediterranean Sea while embracing the fundamentals of associated geological and chemical processes Written by multiple scientists active over many years in the Mediterranean marine community the book provides a broad overview on the information needed to get a robust background on the physical oceanography of the Mediterranean Sea for students in oceanography climate science marine geology and chemistry or scientists unfamiliar with the region Provides a comprehensive but concise introduction to the physical oceanography of the Mediterranean Sea Presents the existing links between climate ocean biogeochemical cycles and geological evolution at the Mediterranean scale Presents clear examples of the Mediterranean region as well as comparisons with other regions globally Software Frameworks for the Computational Simulation of Structural Systems Michael Harrison Scott,2004 Waste Not Erin Rhoads,2018-07-01 Waste Notis your practical guide to start tackling waste at your own pace **Say Goodbye to Plastic** Sandra Ann Harris,2020-08-28 A simple and powerful book educating people about the epidemic of plastic use and solutions for a plastic free future If you ve heard of the plastic free lifestyle but think you don t have time for it in your busy life prepare to be delightfully wrong Goodbye Plastic shows you how whether you re seeking to knock plastic out of your life or just try out a few novel eco hacks in your kitchen bathroom office or dining room Plastic pollution activist and entrepreneur Sandra Ann Harris invites us to say goodbye to plastic room by room Opportunities abound to simplify our lives by re thinking our wasteful habits we just need to learn to recognize them Partial Denture Construction William L. McCracken,1969 **Cleaning litter by developing and applying innovative methods in Eeropean seas** George Triantafyllou,George

Triantaphyllidis,Jun She,Joydeep Dutta,Marco Faimali,Michael Arthur St. John,Roy Brouwer,Pavel E. Stoev,2023-01-03

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