"An accessible overview of the threats and opportunities inherent in automated decision making in academia, government, and industry"--

The deceptively simple supermarket choice echoed in the title symbolizes the dilemma of a society on a collision course with the planet's life-support systems. About one-third of America's municipal solid waste is packaging--at least 300 pounds per person each year--and the "upstream" costs in energy and resources used to make packaging are even more alarming. In this fascinating and timely book, author Daniel Imhoff unwraps the packaging problem and gives consumers, product designers, and policymakers the information they need to take steps toward a more sustainable future.

Written by Chris Maser, one of the architects of the sustainability movement, Interactions of Land, Ocean and Humans: A Global Perspective explores a critical number of the myriad aspects that comprise the great, reciprocal feedback loops between the mountain peaks, the deep sea, and everywhere in between. Maser's exploration of these connections g

Cities are the places that have the greatest influence over life on Earth. The single biggest cause of global warming, the urbanisation of humanity, is potentially the principal solution. The 'ecological genius' of the city enables us to live better – while consuming, wasting and polluting less. However it remains a vast, largely hidden civic power. What is missing is a citizen’s guide to turn the place where we live into the seat of the solution. Energising, motivating and uplifting, Civic Revolution is a topical and relevant book about the power of belonging that gets to the heart of how – and why – all of us must act. ‘A timely and readable call to arms to people who want to make life better in their local community but also understand the need for more fundamental system change.’ – Matthew Taylor, Chief Executive of the Royal Society of Arts.

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

Individuals and grassroots organizations interested in becoming involved in petitioning their government will discover essential information on the techniques and laws to lobbying in this clear and enlightening guide. New lobbyists will learn how to best craft and direct their messages so that their concerns will be heard, make congressional contacts, get the most out of letter-writing campaigns, generate press, give campaign contributions, and even get invited to testify before congressional committees. This resource details the most recent lobbying laws, including the Federal Election Campaign Act amended in 2002, as well as a list of appropriate gifts to give to a member of Congress or their staff. This revised edition contains updated chapters and resources that will ensure that neophyte
Problem: Online Library A Citizens Guide To Plastics In The Ocean More Than A Litter

Happiness of themselves, their children, and the planet. Along on the plastic-free path. Both a practical guide and the story of a personal journey from helplessness to empowerment, Plastic-Free is a must-read for those concerned about the ongoing health and health problems related to plastic. Individual solutions and tips on how to limit your plastic footprint. Presenting both beginner and advanced steps, Terry includes handy checklists and tables for easy reference, ways to get involved in larger community actions, and profiles of individuals—Plastic-Free Heroes—who have gone beyond personal solutions to create change on a larger scale. Fully updated for the paperback edition, Plastic-Free also includes sections on letting go of eco-guilt, strategies for coping with overwhelming problems, and ways to relate to other people who aren’t as far along on the plastic-free path. Both a practical guide and the story of a personal journey from helpfulness to empowerment, Plastic-Free is a must-read for those concerned about the ongoing health and happiness of themselves, their children, and the planet.

Since the publication of the third edition of Aquatic Pollution in 2000, there have been many major developments within the field in terms of research, regulations, and also large-scale catastrophes that have had a significant impact on the aquatic environment; the Deepwater Horizon oil spill and the Fukushima nuclear disaster have taken their toll, and research on ocean acidification has developed enormously over the last decade. Recognizing, controlling, and mitigating aquatic pollution on a global scale is one of the most important and most difficult challenges facing society today. Fully updated to reflect current understanding and discussing these major recent developments, this fourth edition of Aquatic Pollution covers every aspect of pollution associated with urban runoff, acid rain, sewage disposal, pesticides, oil spills, nutrient loading, and more. Case studies of major pollution sites, all original to this new edition, help to illustrate points made in general discussion. Offering unprecedented depth of coverage, and discussing both fresh and sea water environments, this unique text provides a key teaching and learning tool for courses in environmental science, zoology, oceanography, biology, and civil or sanitary engineering, as well as a vital book for government policy makers. It is also an excellent primer for policymakers and activists focused on environmental issues.

“Guides readers toward the road less consumptive, offering practical advice and moral support while making a convincing case that individual actions . . . do matter.” —Elizabeth Royte, author, Garbage Land and Bottlemania Like many people, Beth Terry didn’t think an individual could have much impact on the environment. But while laid up after surgery, she read an article about the staggering amount of plastic polluting the oceans, and decided then and there to kick her plastic habit. In Plastic-Free, she shows you how you can too, providing personal anecdotes, stats about the environmental and health problems related to plastic, and individual solutions and tips on how to limit your plastic footprint. Presenting both beginner and advanced steps, Terry includes handy checklists and tables for easy reference, ways to get involved in larger community actions, and profiles of individuals—Plastic-Free Heroes—who have gone beyond personal solutions to create change on a larger scale. Fully updated for the paperback edition, Plastic-Free also includes sections on letting go of eco-guilt, strategies for coping with overwhelming problems, and ways to relate to other people who aren’t as far along on the plastic-free path. Both a practical guide and the story of a personal journey from helpfulness to empowerment, Plastic-Free is a must-read for those concerned about the ongoing health and happiness of themselves, their children, and the planet.
The world’s ever increasing use of plastics has created large areas of floating plastic waste in the oceans—so-called plastic soup. This floating plastic debris is gradually fragmenting into smaller particles which eventually become microplastics, and even nanoplastics. Analysis of Nanoplastics and Microplastics in Food compiles data on nanoplastics and microplastics in food. To date, there is some data on this, particularly for the marine environment. Fish show high concentrations, but because microplastics are mostly present in the stomach and intestines, they are usually removed and consumers are not exposed. But in crustaceans and bivalve molluscs like oysters and mussels, the digestive tract is consumed, so there is some exposure. Microplastics have also been reported in honey, beer, and table salt.


Marine debris is a serious environmental problem. To do its part, the United States has agreed to abide by the international treaty for garbage control at sea, known as MARPOL 73/78 Annex V. Clean Ships, Clean Ports, Clean Oceans explores the challenge of translating Annex V into workable laws and regulations for all kinds of ships and boats, from cruise ships to fishing crafts and recreational boats. The volume examines how existing resources can be leveraged into a comprehensive strategy for compliance, including integrated waste management systems and effective enforcement. Clean Ships, Clean Ports, Clean Oceans describes both progress toward and obstacles to Annex V compliance. The book covers How shipborne garbage originates and what happens to garbage discharged into the seas. Effects of discharge on human health, wildlife safety, and aesthetics. Differences in perspective among military, industrial, and recreational seafarers and shoreside facilities. Clean Ships, Clean Ports, Clean Oceans will be important to marine policymakers, port administrators, ship operations officers, maritime engineers, and marine ecologists.

Focuses on the ocean’s role in the global biogeochemical cycling of selected elements and the impact of humans on the transport of these elements. Among the topics covered are the chemical composition of seawater from the perspectives of elemental speciation and the impact of solutes on water’s physical behavior; biogeochemical phenomena which control accumulation and preservation of marine sediments; marine chemistry of radioactive and stable isotopes; seawater pollution. Contains many examples as well as steady-state models to aid readers in understanding this relatively young, growing and complex science.

Protecting Your Health Privacy empowers ordinary citizens with the legal and technological knowledge and know-how we need to protect ourselves and our families from prying corporate eyes, medical identity theft, ruinous revelations of socially stigmatizing diseases, and illegal punitive practices by insurers and employers. • Sample forms for exercising one’s health rights, such as a form to request copies of medical records • Tables of information useful for protecting medical privacy, such as key questions to ask one’s personal health-record provider and summaries of key laws • A detailed glossary that clarifies key terms related to health privacy • A comprehensive bibliography • Resources for additional research
This publication, translated from the original Japanese, discusses global environmental problems from the viewpoint of individual ecological responsibility. Through text and humorous, yet compelling cartoons, the author brings attention to the causes and solutions of environmental problems related to excessive waste, energy consumption, toxic chemicals, and nature conservation. The proposed solutions suggest individual lifestyle changes to affect preservation of the environment. A number of tables and figures present supporting data.

The earth is continuously changing and evolving yet it is unclear how environmental changes will affect us in years to come. What changes are inevitable? What changes, if any, are beneficial? And what can we do as citizens of this planet to protect it and our future generations? Larry Slobodkin, one of the leading pioneers of modern ecology, offers compelling answers to these questions in A Citizen's Guide to Ecology. He provides many insights into ecology and the processes that keep the world functioning. This important guide introduces observations that underlie arguments about all aspects of the natural environment—including both global and local issues. To clarify difficult concepts, Slobodkin uses lake, ocean, and terrestrial ecosystems to explain ecological energy flows and relationships on a global scale. The book presents a clear and current understanding of the ecological world, and how individual citizens can participate in practical decisions on ecological issues. It tackles such issues as global warming, ecology and health, organic farming, species extinction and adaptation, and endangered species. An excellent introduction and overview, A Citizen’s Guide to Ecology helps us to understand what steps we as humans can take to keep our planet habitable for generations to come. "This beautifully written book brings together careful observation, personal reflection, and theoretical understanding to explain the major environmental problems that confront us. Dr. Slobodkin's superb and sweeping work invites us to contemplate a great many facts and a few large values to motivate a clear and compelling response to losses of biodiversity, the problem of invasive species, global warming, and other environmental concerns.”--Mark Sagoff, School of Public Affairs, University of Maryland

This environmental action guide discusses the causes and impact of environmental threats, the history of the problem, potential solutions to the problems, and helpful resources

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