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Identifies and describes specific government assistance opportunities such as loans, grants, counseling, and procurement contracts available under many agencies and programs.

Marine Community Ecology was written to give advanced undergraduate and graduate students a current overview of what is known about the structure and organization of the assemblages of organisms that live on the sea floor. Each of the nineteen chapters is written by leading researchers to give students a look at our understanding of these communities, and what remains to be learned about them. The book is organized into three parts. The first eight chapters explore general processes that generate pattern in benthic communities. These introductory chapters examine how physical and biological forces interacting with historical and genetic constraints operate to structure marine communities. The middle part examines the ecology of specific marine benthic community types, ranging from rocky shores and soft substrate habitats to seagrass beds and coral reefs. These chapters are intended to be the most up-to-date summaries available of our understanding of these communities. The book closes with three chapters examining conservation and management issues of marine communities. These closing chapters emphasize how pervasively benthic marine communities are impacted by humans and outline how we can use our understanding of these

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systems to manage marine populations and communities and to design marine reserves. Marine Community Ecology is extensively referenced and includes a bibliography of over 5,000 citations. It is suitable as a text for advanced marine ecology courses and seminars, as well as a general reference for students and researchers.

Based on the author's extensive experience as a working planner, this book gives readers an insider's view of sub-state urban planning--the nitty-gritty details on the interplay of politics, law, money, and interest groups. The author takes a balanced, non-judgmental approach to introduce a range of ideological and political perspectives on the operation of political, economic, and demographic forces in city planning. Unlike other books on the subject, this one is strong in its coverage of economics, law, finance, and urban governance. It examines the underlying forces of growth and change and discusses frankly who benefits and loses by particular decisions. A four-part organization covers the background and development of contemporary planning; the structure and practice of contemporary planning; fields of planning; and national planning in the United States and other nations, and planning theory. For individuals headed for a career in planning.

Coral reefs are critical to ocean and human life because they provide food, living area, storm protection, tourism income, and more. However, human-induced stressors, such as overfishing, sediment, pollution, and habitat destruction have threatened ocean ecosystems globally for decades. In the face of climate change, these

ecosystems now face an array of unfamiliar challenges due to destructive rises in ocean temperature, acidity and sea level. These factors lead to an increased frequency of bleaching events, hindered growth, and a decreasing rate of calcification. Research on interventions to combat these relatively new stressors and a reevaluation of longstanding interventions is necessary to understand and protect coral reefs in this changing climate. Previous research on these methods prompts further questions regarding the decision making process for site-specific interventions. A Decision Framework for Interventions to Increase the Persistence and Resilience of Coral Reefs builds upon a previous report that reviews the state of research on methods that have been used, tested, or proposed to increase the resilience of coral reefs. This new report aims to help coral managers evaluate the specific needs of their site and navigate the 23 different interventions described in the previous report. A case study of the Caribbean, a region with low coral population plagued by disease, serves as an example for coral intervention decision making. This report provides complex coral management decision making tools, identifies gaps in coral biology and conservation research, and provides examples to help individuals and communities tailor a decision strategy to a local area.

For more than a century, oil has been the engine of growth for a society that delivers an unprecedented standard of living to many. We now take for granted that economic growth is good, necessary, and even inevitable, but also feel a sense of unease about the

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simultaneous growth of complexity in the processes and institutions that generate and manage that growth. As societies grow more complex through the bounty of cheap energy, they also confront problems that seem to increase in number and severity. In this era of fossil fuels, cheap energy and increasing complexity have been in a mutually-reinforcing spiral. The more energy we have and the more problems our societies confront, the more we grow complex and require still more energy. How did our demand for energy, our technological prowess, the resulting need for complex problem solving, and the end of easy oil conspire to make the Deepwater Horizon oil spill increasingly likely, if not inevitable? This book explains the real causal factors leading up to the worst environmental catastrophe in U.S. history, a disaster from which it will take decades to recover. This is a print on demand edition of a hard to find publication. On April 20, 2010, a well control event allowed hydrocarbons to escape from the Macondo well onto Transocean's Deepwater Horizon, resulting in explosions and fire on the rig. This is the report of an internal BP incident invest. team. It presents an analysis of the events leading up to the accident, 8 key findings related to the causal chain of events, and recommend. to enable the prevention of a similar accident. The invest. team worked separately from any invest. conducted by other co. involved in the accident, and it did not review its analyses, conclusions or recommend. with any other co. or invest. team. Other invest., such as the U.S.

Coast Guard, U.S. Justice Dept., and Bur. of Ocean Energy Mgmt., and the Pres. Nat. Comm. are ongoing.

"The purpose of this report is to document the response to the oil spill that resulted from the explosion on the Deepwater Horizon mobile offshore drilling unit on April 20, 2010. On scene coordinator report, Deepwater Horizon oil spill, submitted to the National Response Team, September 2010. On November 18, 2010, the National Response Team (NRT) requested submission of an On-Scene Coordinator (OSC) report for the Deepwater Horizon spill to the NRT Response Committee, pursuant to the National Contingency Plan (NCP). The NART's request listed 33 specific topics be addressed in the report. The list of specific topics addressed in the report expanded to 56 to cover additional focus areas of the Federal On-Scene Coordinators (FOSCs)"--Executive summary.

Sustainable Use of Water by Industry: Perspectives, Incentives, and Tools

The aim of this open access book is to review and analyse the goods and services of bivalve shellfish. How they are defined, what determines the ecological functions that are the basis for the goods and services, what controversies in the use of goods and services exist, and what is needed for sustainable exploitation of bivalves from the perspective of the various stakeholders. The book is

focused on the goods and services, and not on impacts of shellfish aquaculture on the benthic environment, or on threats like biotoxins; neither is it a shellfish culture handbook although it can be used in evaluating shellfish culture. The reviews and analysis are based on case studies that exemplify the concept, and show the strengths and weaknesses of the current applications. The multi-authored reviews cover ecological, economic and social aspects of bivalve goods and services. The book provides new insights for scientists, students, shellfish producers, policy advisors, nature conservationists and decision makers. This book is open access under the CC BY license.

"Containing the public messages, speeches, and statements of the President", 1956-1992.

The text presents a broad study of environmental issues and explores economic theories to reinforce the lessons. Offering a long-lasting understanding of real-world environmental problems and policy solutions, this work provides a foundation for the environmental managers of tomorrow.

Surrounded by one of the largest petrochemical compounds in Argentina, a highly polluted river that brings the toxic waste of tanneries and other industries, a hazardous and largely unsupervised waste incinerator, and an unmonitored landfill, Flammable's soil, air, and water are contaminated with lead, chromium, benzene, and other chemicals. So are its nearly five thousand sickened and frail inhabitants. How do poor people make sense of and cope with toxic pollution? Why do they fail to understand what is objectively a clear and present danger? How are perceptions and misperceptions shared

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within a community? Based on archival research and two and a half years of collaborative ethnographic fieldwork in Flammable, this book examines the lived experiences of environmental suffering. Despite clear evidence to the contrary, residents allow themselves to doubt or even deny the hard facts of industrial pollution. This happens, the authors argue, through a "labor of confusion" enabled by state officials who frequently raise the issue of relocation and just as frequently suspend it; by the companies who fund local health care but assert that the area is unfit for human residence; by doctors who say the illnesses are no different from anywhere else but tell mothers they must leave the neighborhood if their families are to be cured; by journalists who randomly appear and focus on the most extreme aspects of life there; and by lawyers who encourage residents to hold out for a settlement. These contradictory actions, advice, and information work together to shape the confused experience of living in danger and ultimately translates into a long, ineffective, and uncertain waiting time, a time dictated by powerful interests and shared by all marginalized groups. With luminous and vivid descriptions of everyday life in the neighborhood, Auyero and Swistun depict this on-going slow motion human and environmental disaster and dissect the manifold ways in which it is experienced by Flammable residents.

This book tells you where beach sand comes from, how waves are formed and how they break and move sand down the coast, how ?works of man? have blocked this movement and caused beach erosion, and what can be done to save the beaches for future generations of Americans. A three-part prescription for healthy beaches is proposed: ?backing off?, ?bypassing sand?, and ?beach nourishment?. So if you love waves and beaches, and care about the future of your favorite beach spot, then read this book while you enjoy the

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beach.

Given in honor of District Governor Hugh Summers and Mrs. Ahnise Summers by the Rotary Club of Aggieland with matching support from the Sara and John H. Lindsey '44 Fund, Texas A & M University Press, 2004.

Gulf Coast communities and natural resources suffered extensive direct and indirect damage as a result of the largest accidental oil spill in US history, referred to as the Deepwater Horizon (DWH) oil spill. Notably, natural resources affected by this major spill include wetlands, coastal beaches and barrier islands, coastal and marine wildlife, seagrass beds, oyster reefs, commercial fisheries, deep benthos, and coral reefs, among other habitats and species. Losses include an estimated 20% reduction in commercial fishery landings across the Gulf of Mexico and damage to as much as 1,100 linear miles of coastal salt marsh wetlands. This historic spill is being followed by a restoration effort unparalleled in complexity and magnitude in U.S. history. Legal settlements in the wake of DWH led to the establishment of a set of programs tasked with administering and supporting DWH-related restoration in the Gulf of Mexico. In order to ensure that restoration goals are met and money is well spent, restoration monitoring and evaluation should be an integral part of those programs. However, evaluations of past restoration efforts have shown that monitoring is often inadequate or even absent. Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico identifies best practices for monitoring and evaluating restoration activities to improve the performance of restoration programs and increase the effectiveness and longevity of restoration projects. This report provides general guidance for restoration monitoring, assessment, and synthesis that can be applied to most ecological restoration supported by these major programs given their similarities in restoration goals. It also

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offers specific guidance for a subset of habitats and taxa to be restored in the Gulf including oyster reefs, tidal wetlands, and seagrass habitats, as well as a variety of birds, sea turtles, and marine mammals.

In this edited open access book leading scholars from different disciplinary backgrounds wrestle with social science integration opportunities and challenges. This book explores the growing concern of how best to achieve effective integration of the social science disciplines as a means for furthering natural resource social science and environmental problem solving. The chapters provide an overview of the history, vision, advances, examples and methods that could lead to integration. The quest for integration among the social sciences is not new. Some argue that the social sciences have lagged in their advancements and contributions to society due to their inability to address integration related issues. Integration merits debate for a number of reasons. First, natural resource issues are complex and are affected by multiple proximate driving social factors. Single disciplinary studies focused at one level are unlikely to provide explanations that represent this complexity and are limited in their ability to inform policy recommendations. Complex problems are best explored across disciplines that examine social-ecological phenomenon from different scales. Second, multi-disciplinary initiatives such as those with physical and biological scientists are necessary

to understand the scope of the social sciences. Too frequently there is a belief that one social scientist on a multi-disciplinary team provides adequate social science representation. Third, more complete models of human behavior will be achieved through a synthesis of diverse social science perspectives. The news media has become a key arena for staging environmental conflicts. Through a range of illuminating examples ranging from climate change to oil spills, Media, Environment and the Network Society provides a timely and far-reaching analysis of the media politics of contemporary environmental debates.

"Lavishly illustrated with informational graphics, paintings, sculptures, drawings and photography, this 212-page book accompanies the Gyre exhibition. Twelve essays by scientists, artists, writers and others explore the ways in which we are all connected -- both by trash and by the sea, and through our individual actions. Gyre: The Plastic Ocean looks at human consumption, modern materials and environmental change and their impacts upon one of the largest, most mysterious and critical components of our planet: the ocean. This book includes the history of plastic, startling facts, trash breakdown rates and things you can do to support trash-free seas." -- Anchorage Museum website.

The President's Budget for Fiscal Year 2012

represents his blueprint for America's future that the White House sends to Congress each year. To win the future, we have to out-innovate, out-educate and out-build the rest of the world, tapping the creativity and imagination of our people. We have to take responsibility for our deficit, by investing in what makes America stronger and cutting what doesn't. And we have to reform our government so that it's smarter, leaner, and better able to take on the challenges of the 21st century. The President's Budget is his plan to do just that. The full Budget and additional information is available at [WhiteHouse.gov/winning-the-future](http://WhiteHouse.gov/winning-the-future).

The days are gone when seemingly limitless numbers of canvasbacks, mallards, and Canada geese filled the skies above the Texas coast. Gone too are the days when, in a single morning, hunters often harvested ducks, shorebirds, and other waterfowl by the hundreds. The hundred-year period from the mid-nineteenth to the mid-twentieth centuries brought momentous changes in attitudes and game laws: changes initially prompted by sportsmen who witnessed the disappearance of both the birds and their spectacular habitat. These changes forever affected the state's storied hunting culture. Yet, as R. K. Sawyer discovered, the rich lore and reminiscences of the era's hunters and guides who plied the marshy haunts from Beaumont to Brownsville, though fading, remain a colorful and

essential part of the Texas outdoor heritage. Gleaned from interviews with sportsmen and guides of decades past as well as meticulous research in news archives, Sawyer's vivid documentation of Texas' deep-rooted waterfowl hunting tradition is accompanied by a superb collection of historical and modern photographs. He showcases the hunting clubs, the decoys, the duck and goose calls, the equipment, and the unique hunting practices of the period. By preserving this account of a way of life and a coastal environment that have both mostly vanished, *A Hundred Years of Texas Waterfowl Hunting* also pays tribute to the efforts of all those who fought to ensure that Texas' waterfowl legacy would endure. This book will aid their efforts, along with those of coastal residents, birders, wildlife biologists, conservationists, and all who are interested in the state's natural history and in championing the preservation of waterfowl and wetland resources for the benefit of future generations. For more information, visit the author's website at [www.robertksawyer.com](http://www.robertksawyer.com)

*Siting Noxious Facilities* explains and illustrates processes and criteria used to site noxious manufacturing and waste management facilities. It proposes a framework that integrates economic location analysis and risk analysis, emphasizing the reduction of uncertainty. This book begins by defining noxious facilities and considers the important role of

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manufacturing in the world economy, before going on to describe the historical practices used in locating these facilities for much of the twentieth century. It then shifts focus to analyze the complex set of considerations in the twenty-first century that mean that any facility that produces annoying smells and sounds, is unsightly and emits hazardous substances has had the bar of acceptability markedly raised for economic, environmental, social and political acceptability. Drawing on case study examples that highlight pollution prevention, choosing locations at major plants (CLAMP), negotiations, and surrendering control of an activity, Greenberg presents a hybrid framework that advocates the amalgamation of industrial location processes with human health and environmental-oriented risk analysis. This book will be of great interest to students and scholars of location economics, environmental science, risk analysis and land-use planning. It will also be of great relevance to decision-makers and their major advisers who must make choices about siting noxious facilities.

As the Gulf of Mexico recovers from the Deepwater Horizon oil spill, natural resource managers face the challenge of understanding the impacts of the spill and setting priorities for restoration work. The full value of losses resulting from the spill cannot be captured, however, without consideration of changes in ecosystem services--the benefits delivered to society through natural processes. An Ecosystem Services Approach to Assessing the Impacts of the Deepwater Horizon Oil Spill in the Gulf of Mexico discusses the benefits and

challenges associated with using an ecosystem services approach to damage assessment, describing potential impacts of response technologies, exploring the role of resilience, and offering suggestions for areas of future research. This report illustrates how this approach might be applied to coastal wetlands, fisheries, marine mammals, and the deep sea -- each of which provide key ecosystem services in the Gulf -- and identifies substantial differences among these case studies. The report also discusses the suite of technologies used in the spill response, including burning, skimming, and chemical dispersants, and their possible long-term impacts on ecosystem services.

In this book international experts discuss the state-of-the-art in the biological degradation of hydrocarbons to meet remedial or disposal goals. The work focuses on practical applications, often on globally important scales including the remediation of some of the world's largest crude oil spills. Other related chapters discuss important implications of microbial transformation of hydrocarbons, including treatment of high fat processing wastes, impacts of microbial biodegradation activity on industrial processes, and the implications of microbial oil degradation in relation to modern oil extraction processes like hydraulic fracturing of shales and extraction of oil sands.

Michael Batty Centre for Advanced Spatial Analysis, University College London Landscapes, like cities, cut across disciplines and professions. This makes it especially difficult to provide an overall sense of how landscapes should be studied and researched. Ecology,

aesthetics, economy and sociology combine with physiognomy and deep physical structure to confuse our understanding and the way we should react to the problems and potentials of landscapes. Nowhere are these dilemmas and paradoxes so clearly highlighted as in Australia — where landscapes dominate and their relationship to cities is so fragile, yet so important to the sustainability of an entire nation, if not planet. This book presents a unique collection and synthesis of many of these perspectives — perhaps it could only be produced in a land urbanised in the tiniest of pockets, and yet so daunting with respect to the way non-populated landscapes dwarf its cities. Many travel to Australia to its cities and never see the landscapes — but it is these that give the country its power and imagery. It is the landscapes that so impress on us the need to consider how our intervention, through activities ranging from resource exploitation and settled agriculture to climate change, poses one of the greatest crises facing the modern world. In this sense, Australia and its landscape provide a mirror through which we can glimpse the extent to which our intervention in the world threatens its very existence.

“This delightful book details our ever-evolving relationship with Earth’s wildest creatures, promising that peaceful coexistence is possible.” —Jennifer Holland, New York Times–bestselling author  
Wildness beats in the heart of California’s urban areas. In Los Angeles, residents are rallying to build one of the largest wildlife crossings in the world because of the plight of one lonely mountain lion named P-22. Porpoises cavort

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in San Francisco Bay again because of a grassroots effort to clean up a waterway that was once a toxic mess. And on the Facebook campus in Silicon Valley, Mark Zuckerberg and his staff have provided a home for an endearing family of wild gray foxes. Through actions as sweeping as citizen science initiatives and as instantaneous as social media posts, a movement of diverse individuals and communities is taking action to recast nature as an integral part of our everyday lives. *When Mountain Lions Are Neighbors* explores this evolving dynamic between humans and animals, including remarkable stories like the journey of the wolf OR-7 and how Californians are welcoming wolves back to the state after a ninety-year absence, how park staff and millions of visitors rallied to keep Yosemite's famed bears wild, and many more tales from across the state. Written by Beth Pratt-Bergstrom of the National Wildlife Federation, these inspiring stories celebrate a new paradigm for wildlife conservation: coexistence. "A contemporary and exciting view of conservation that we all can celebrate." —Ed Begley Jr. "When Mountain Lions Are Neighbors focuses on a serious problem by presenting meaningful solutions, and is as enjoyable to read as it is informative." —Foreword Reviews

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