

Petrochemical America

The fourth edition of Ludwig's Applied Process Design for Chemical and Petrochemical Plants, Volume Three is a core reference for chemical, plant, and process engineers and provides an unrivalled reference on methods, process fundamentals, and supporting design data. New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers, double pipe heat exchangers and air coolers. Heat tracer requirements for pipelines and heat loss from insulated pipelines are covered in this new edition, along with batch heating and cooling of process fluids, process integration, and industrial reactors. The book also looks at the troubleshooting of process equipment and corrosion and metallurgy. Assists engineers in rapidly analyzing problems and finding effective design methods and mechanical specifications Definitive guide to the selection and design of various equipment types, including heat exchanger sizing and compressor sizing, with established design codes Batch heating and cooling of process fluids supported by Excel programs

Documents the journey of a Honduran teen who braved hardship and peril to reunite with his mother after she was forced to leave him behind and seek migratory work in the United States.

Leveraging Synergies Between Refining and Petrochemical Processes provides a detailed description of the interfaces and connections between crude oil refining and petrochemicals. It offers a view of global and regional markets and economic opportunities for synergies between these sectors. Features: Shows a global and regional market outlook for crude oil refining and petrochemical sectors Explores economic and market opportunities for taking advantage of the synergies between both sectors Analyzes the technical challenges and opportunities that come with these synergies Gives an outlook and prediction of what companies will be able to achieve in the mid-term future Provides introductory and explanatory material as well as in-depth insight into future technology and market developments This book serves as a reference for professionals in chemical engineering, oil and gas engineering, and industrial chemistry. It aims to help engineers and industry professionals understand the challenges and the potential benefits of developing expansion or optimization projects that may bridge the gap between refining and petrochemicals.

In fall 2012, the hardcover edition of this book was released to critical acclaim and received several awards, including the 2013 American Society of Landscape Architects Honor Award for its innovative collaborative approach and design. Now available in a smaller, more affordable paperback edition, Petrochemical America features Richard Misrachs haunting photo-graphic record of Louisianas Chemical Corridor, accompanied by landscape architect Kate Orff s Ecological Atlas a series of speculative drawings developed through research and mapping of data from the region. Their joint effort depicts and unpacks the complex cultural, physical, and economic ecologies along 150 miles of the Mississippi River, from Baton Rouge to New Orleans, an area of intense chemical production that first garnered public attention as Cancer Alley when unusual occurrences of cancer were discovered in the region. This collaboration has resulted in an unprecedented, multilayered document presenting a unique narrative of visual information.

Petrochemical America offers in-depth analysis of the causes of decades of environmental abuse along the largest river system in North America. Even more critically, the project offers an extensively researched guidebook to the ways in which the petrochemical industry has permeated every facet of contemporary life. What is revealed over the course of the book, however, is that Cancer Alley although complicated by its own regional histories and particularities may well be an apt metaphor for the global impact of petrochemicals on the human landscape as a whole.

In Chemistry of Petrochemical Processes, readers find a handy and valuable source of information containing insights into petrochemical reactions and products, process technology, and polymer synthesis. The book reviews and describes the reactions and processes involved in transforming petroleum-based hydrocarbons into the chemicals that form the basis of the multi-billion dollar petrochemical industry. In addition, the book includes information on new process developments for the production of raw materials and intermediates for petrochemicals that have surfaced since the book's first edition. Provides a quick understanding of the chemical reactions associated with oil and gas processing Contains insights into petrochemical reactions and products, process technology, and polymer synthesis

This authoritative text has been re-written and expanded to include additional chapters on methyl tertiary butyl ether and higher alcohols. Read it cover to cover, chapter by chapter as the subject comes up in your business, use it as an encyclopedia, or as a primer on petrochemical economics. Packed with diagrams and tables, it is the only source you will need to get a clear understanding of this complex topic. Each chapter includes exercises and 'in a nutshell' chapter reviews. Contents: What you need to know about organic chemistry Benzene Toluene and the xylenes Cyclohexane Olefins plants, ethylene, and propylene The hydrocarbon family Cumene and phenol Ethylbenzene and styrene Ethylene dichloride and vinyl chloride Propylene oxide and propylene glycol Methanol and synthesis gas Other alcohols Formaldehyde and acetaldehyde Ketones Acids Acrylonitrile, acrylic acid, and acrylates Maleic anhydride Alpha olefins Nature of polymers Thermoplastics Resins and fibers

How to tackle representation in landscape design Representation is a hot topic in landscape architecture. While computerization has been a catalyst for change across many fields in design, no other design field has experienced such drastic reinvention as has landscape architecture. As the world urbanizes rapidly and our relationship with nature changes, it is vitally important that landscape designers adopt innovative forms of representation—whether digital, analog, or hybrid. In this book, author Diana Balmori explores notions of representation in the discipline at large and across time. She takes readers from landscape design's roots in seventeenth-century France and eighteenth-century

England through to modern attempts at representation made by contemporary landscape artists. Addresses a central topic in the discipline of landscape architecture Features historic works and those by leading contemporary practitioners, such as Bernard Lassus, Richard Haag, Stig LAndersson, Lawrence Halprin, and Patricia Johanson Written by a renowned practitioner and educator Features 150 full-color images Drawing and Reinventing Landscape, AD Primer is an informative investigation of beauty in landscape design, offering inspiring creative perspectives for students and professionals.

The National Book Award Finalist and New York Times bestseller that became a guide and balm for a country struggling to understand the election of Donald Trump "A generous but disconcerting look at the Tea Party. . . . This is a smart, respectful and compelling book." —Jason DeParle, The New York Times Book Review When Donald Trump won the 2016 presidential election, a bewildered nation turned to Strangers in Their Own Land to understand what Trump voters were thinking when they cast their ballots. Arlie Hochschild, one of the most influential sociologists of her generation, had spent the preceding five years immersed in the community around Lake Charles, Louisiana, a Tea Party stronghold. As Jedediah Purdy put it in the New Republic, "Hochschild is fascinated by how people make sense of their lives. . . . [Her] attentive, detailed portraits . . . reveal a gulf between Hochschild's 'strangers in their own land' and a new elite." Already a favorite common read book in communities and on campuses across the country and called "humble and important" by David Brooks and "masterly" by Atul Gawande, Hochschild's book has been lauded by Noam Chomsky, New Orleans mayor Mitch Landrieu, and countless others. The paperback edition features a new afterword by the author reflecting on the election of Donald Trump and the other events that have unfolded both in Louisiana and around the country since the hardcover edition was published, and also includes a readers' group guide at the back of the book.

Discusses the reckless annihilation of fish and birds by the use of pesticides and warns of the possible genetic effects on humans.

"The photographs in this book were made between 1997 and 2002 from the front porch of my house in the Berkeley Hills; this special oversized edition presents a selection of forty key images from this series, and was created to commemorate the seventy-fifth anniversary of the 1937 construction of the Golden Gate Bridge, Richard Misrach"--Colophon.

Environmental Health | Health Care Policy | History Of Medicine --

AN AUTHORITATIVE GUIDE THAT EXPLAINS THE EFFECTIVENESS AND IMPLEMENTATION OF BOW TIE ANALYSIS, A QUALITATIVE RISK ASSESSMENT AND BARRIER MANAGEMENT METHODOLOGY From a collaborative effort of the Center for Chemical Process Safety (CCPS) and the Energy Institute (EI) comes an invaluable book that puts the focus on a specific qualitative risk management methodology – bow tie barrier analysis. The book contains practical advice for conducting an effective bow tie analysis and offers guidance for creating bow tie diagrams for process safety and risk management. Bow Ties in Risk Management clearly shows how bow tie analysis and diagrams fit into an overall process safety and risk management framework. Implementing the methods outlined in this book will improve the quality of bow tie analysis and bow tie diagrams across an organization and the industry. This important guide: Explains the proven concept of bow tie barrier analysis for the preventing and mitigation of incident pathways, especially related to major accidents Shows how to avoid common pitfalls and is filled with real-world examples Explains the practical application of the bow tie method throughout an organization Reveals how to treat human and organizational factors in a sound and practical manner Includes additional material available online Although this book is written primarily for anyone involved with or responsible for managing process safety risks, this book is applicable to anyone using bow tie risk management practices in other safety and environmental or Enterprise Risk Management applications. It is designed for a wide audience, from beginners with little to no background in barrier management, to experienced professionals who may already be familiar with bow ties, their elements, the methodology, and their relation to risk management. The missions of both the CCPS and EI include developing and disseminating knowledge, skills, and good practices to protect people, property and the environment by bringing the best knowledge and practices to industry, academia, governments and the public around the world through collective wisdom, tools, training and expertise. The CCPS has been at the forefront of documenting and sharing important process safety risk assessment methodologies for more than 30 years. The EI's Technical Work Program addresses the depth and breadth of the energy sector, from fuels and fuels distribution to health and safety, sustainability and the environment. The EI program provides cost-effective, value-adding knowledge on key current and future international issues affecting those in the energy sector.

As the planet faces ever-worsening disruptions to global ecosystems—carbon and chemical emissions, depletions of the ozone layer, the loss of biodiversity, rising sea levels, air toxification, and worsening floods and droughts—scholars across academia must examine the cultural effects of this increasingly postnatural world. That task proves especially vital for southern studies, given how often the U.S. South serves as a site for large-scale damming initiatives like the TVA, disasters on the scale of Hurricane Katrina and the Deepwater Horizon spill, and the extraction of coal, oil, and natural gas. Ecocriticism and the Future of Southern Studies is the first book-length collection of scholarship that applies interdisciplinary environmental humanities research to cultural analyses of the U.S. South. Sixteen essays examine novels, nature writing, films, television, and music that address a broad range of ecological topics related to the region, including climate change, manmade and natural environments, the petroleum industry, food cultures, waterways, natural and human-induced disasters, waste management, and the Anthropocene. Edited by Zackary Vernon, this volume demonstrates how the greening of southern studies, in tandem with the southernization of environmental studies, can catalyze alternative ways of understanding the connections between regional and global cultures and landscapes. By addressing ecological issues central to life throughout the South, Ecocriticism and the Future of Southern Studies considers the confluence between region and environment, while also illustrating the growing need to see environmental issues as matters of social justice.

Gateway National Recreation Area is one of the most diverse and underused parks in the national park system. Spreading across the coastline of Brooklyn, Queens, Staten Island, and New Jersey, it includes wildlife estuaries, bird-nesting areas, salt marshes, historic military forts, beaches, and NYC's first municipal airport, to name just a few of its exceptional features. It also contains sewage treatment plants, sewer outfalls, landfills, and acres upon acres of "black mayonnaise." Due to neglect and misuse, this extraordinary natural and national resource is at risk. Ninety percent of the salt marshes in Jamaica Bay one of the most biologically productive habitats in the region will have disappeared by 2011. This book presents the collaborative efforts of the Van Alen Institute, the National Parks Conservation Association, and Columbia University Graduate School of Architecture, Planning, and Preservation to investigate and document the diverse ecology of the park and re-envision a more sustainable future for it.

With newly commissioned essays by some of the leading writers on photography today, this companion tackles some of the most pressing questions about photography theory's direction, relevance, and purpose. This book shows how digital technologies and global dissemination have radically advanced the pluralism of photographic meaning and fundamentally transformed photography theory. Having assimilated the histories of semiotic analysis and post-structural theory, critiques of representation continue to move away from the notion of original and copy and towards materiality, process, and the

interdisciplinary. The implications of what it means to 'see' an image is now understood to encompass, not only the optical, but the conceptual, ethical, and haptic experience of encountering an image. The 'fractal' is now used to theorize the new condition of photography as an algorithmic medium and leads us to reposition our relationship to photographs and lend nuances to what essentially underlies any photography theory — that is, the relationship of the image to the real world and how we conceive what that means. Diverse in its scope and themes, *The Routledge Companion to Photography Theory* is an indispensable collection of essays and interviews for students, researchers, and teachers. The volume also features extensive images, including beautiful colour plates of key photographs.

Though still a relatively young field, the study of Latin American environmental history is blossoming, as the contributions to this definitive volume demonstrate. Bringing together thirteen leading experts on the region, *A Living Past* synthesizes a wide range of scholarship to offer new perspectives on environmental change in Latin America and the Spanish Caribbean since the nineteenth century. Each chapter provides insightful, up-to-date syntheses of current scholarship on critical countries and ecosystems (including Brazil, Mexico, the Caribbean, the tropical Andes, and tropical forests) and such cross-cutting themes as agriculture, conservation, mining, ranching, science, and urbanization. Together, these studies provide valuable historical contexts for making sense of contemporary environmental challenges facing the region.

Petrochemical America features Richard Misrachs haunting photographic record of Louisianas Chemical Corridor, accompanied by landscape architect Kate Orffs Ecological Atlas series of speculative drawings developed through research and mapping of data from the region. Their joint effort depicts and unpacks the complex cultural, physical, and economic ecologies along 150 miles of the Mississippi River, from Baton Rouge to New Orleans, an area of intense chemical production that first garnered public attention as Cancer Alley when unusual occurrences of cancer were discovered in the region. This collaboration has resulted in an unprecedented, multilayered document presenting a unique narrative of visual information. *Petrochemical America* offers in-depth analysis of the causes of decades of environmental abuse along the largest river system in North America. Even more critically, the project offers an extensively researched guidebook to the way in which the petrochemical industry has permeated every facet of contemporary life. What is revealed over the course of the book, however, is that Cancer Alley although complicated by its own regional histories and particularities may well be an apt metaphor for the global impact of petrochemicals on the human landscape as a whole.

Port work is still considered an occupation with very high accident rates. This essential code of practice, intended to replace both the second edition of the ILO Code of Practice on Safety and Health in Dock Work (1977) and the ILO Guide to Safety and Health in Dock Work (1976), provides valuable advice and assistance to all those charged with the management, operation, maintenance and development of ports and their safety. Offering many detailed technical illustrations and examples of good practice, the provisions of this code cover all aspects of port work where goods or passengers are loaded or unloaded to or from ships. It is not limited to international trade but applies equally to domestic operations, including those on inland waterways. New topics are: traffic and vehicular movements of all types; activities on shore and on ship; amended levels of lighting provision; personal protective equipment; ergonomics; provisions for disabled persons; and the specific handling of certain cargoes, for example logs, scrap metal and dangerous goods.

In this brilliant, gracefully written, and important new book, former Secretary of the Interior and Governor of Arizona Bruce Babbitt brings fresh thought--and fresh air--to questions of how we can build a future we want to live in. We've all experienced America's changing natural landscape as the integrity of our forests, seacoasts, and river valleys succumbs to strip malls, new roads, and subdivisions. Too often, we assume that when land is developed it is forever lost to the natural world--or hope that a patchwork of local conservation strategies can somehow hold up against further large-scale development. In *Cities in the Wilderness*, Bruce Babbitt makes the case for why we need a national vision of land use. We may have a space program, he points out, but here at home we don't have an open-space policy that can balance the needs for human settlement and community with those for preservation of the natural world upon which life depends. Yet such a balance, the author demonstrates, is as remarkably achievable as it is necessary. This is no call for developing a new federal bureaucracy; Babbitt shows instead how much can be--and has been--done by making thoughtful and beneficial use of laws and institutions already in place. A hallmark of the book is the author's ability to match imaginative vision with practical understanding. Babbitt draws on his extensive experience to take us behind the scenes negotiating the Florida Everglades restoration project, the largest ever authorized by Congress. In California, we discover how the Endangered Species Act, still one of the most effective laws governing land use, has been employed to restore regional habitat. In the Midwest, we see how new World Trade Organization regulations might be used to help restore Iowa's farmlands and rivers. As a key architect of many environmental success stories, Babbitt reveals how broad restoration projects have thrived through federal- state partnership and how their principles can be extended to other parts of the country. Whether writing of land use as reflected in the Gettysburg battlefield, the movie *Chinatown*, or in presidential political strategy, Babbitt gives us fresh insight. In this inspiring and informative book, Babbitt sets his lens to panoramic--and offers a vision of land use as grand as the country's natural heritage.

This compendium gives an overview of the technologies and economics in the production of olefins in the petrochemical industries. It highlights the options and costs for producing olefins using different technologies and different feedstocks at a time when the cost of carbon dioxide emissions are set to be included in the production cost. Industry professionals, engineers, research scientists and financiers will find this title a valuable resource.

This report provides state-of-the-practice guidelines for the computation of wind-induced forces on industrial facilities with structural features outside the scope of current codes and standards.

This updated edition provides general guidelines for the structural design of blast-resistant petrochemical facilities. Information is provided for U.S. Occupational Safety and Health Administration (OSHA) requirements, design objectives, siting considerations, and load determination, and references cite sources of detailed information. Detailed coverage is provided for types of construction, dynamic material strengths, allowable response criteria, analysis methods, and design procedures. Typical details and ancillary considerations, such as doors and windows, are also included. A how-to discussion on the upgrade of existing buildings is provided for older facilities which may not meet current needs. Three example calculations are included to illustrate design procedures.

In 'The Photography Workshop Series', Aperture Foundation works with the world's top photographers to distill their creative approaches, teachings, and insights on photography - offering the workshop experience in a book. Our goal is to inspire photographers of all levels who wish to improve their work, as well as readers interested in deepening their understanding of the art of photography.00In this book, Richard Misrach - well known for his sublime and expansive landscapes that focus on the relationship between humans and their environment - offers his insight on creating photographs that are visually beautiful and have cultural implications. Through images and words, he shares his own creative process and discusses a wide range of issues, from the language of color photography and the play of light and atmosphere, to transcending place and time through metaphor, myth, and abstraction.

Petrochemical Machinery Insights is a priceless collection of solutions and advice from Heinz Bloch on a broad range of equipment management themes, from wear to warranty issues, organizational problems and oil mist lubrication, and professional growth and pre-purchase of machinery. The author draws on his industry experience to hone in on important problems that do not get addressed in other books, providing actionable details that engineers can use. Mechanical, reliability, and process engineers will find this book the next best thing to having Heinz Bloch on speed dial. Focuses on pieces of hard-

won experience from the industry that are rarely included in other books Presents not just a guide to technical problems, but also to crucial themes in management and organization Includes an informal and honest style, making author Heinz Bloch's 40 years of experience accessible to a broad audience of readers Contains a unifying theme that successful asset management requires the separation of application and implementation details

Prepared by the Task Committee on Wind-Induced Forces and Task Committee on Anchor Bolt Design of the Petrochemical Committee of the Energy Division of ASCE. This report presents state-of-the-practice set of guidelines for the determination of wind-induced forces and the design of anchor bolts for petrochemical facilities. Current codes and standards do not address many of the structures found in the petrochemical industry. As a result, engineers and petrochemical companies have independently developed procedures and techniques for handling engineering issues such as the two contained in this report. A lack of standardization in the industry has led to inconsistent structural reliability, however. This volume is intended for structural design engineers familiar with design of industrial-type structures.

"Wherever the people are well informed," Thomas Jefferson wrote, "they can be trusted with their own government." But what happens when they are not? In every issue of modern society--from climate change to vaccinations, transportation to technology, health care to defense--we are in the midst of an unprecedented expansion of scientific progress and a simultaneous expansion of danger. At the very time we need them most, scientists and the idea of objective knowledge are being bombarded by a vast, well-funded, three-part war on science: the identity politics war on science, the ideological war on science, and the industrial war on science. The result is an unprecedented erosion of thought in Western democracies as voters, policymakers, and justices actively ignore the evidence from science, leaving major policy decisions to be based more on the demands of the most strident voices. Shawn Otto's compelling new book investigates the historical, social, philosophical, political, and emotional reasons why evidence-based politics are in decline and authoritarian politics are once again on the rise on both left and right, and provides some compelling solutions to bring us to our collective senses, before it's too late.

For over forty years, Richard Misrach has been photographing the American landscape, interweaving the politics and poetics of place in the form of striking, large-scale photographs. He is considered a pioneer of color photography, and his work continues to provoke questions about culpability, American identity, and the peculiarities of place, particularly in the American West. Breaking with this geographical trajectory in 1998, Misrach turned his lens to the southeast to explore the relationship between Louisiana's chemical corridor and the rest of the country. This project, *Petrochemical America* (2012), is a collaboration between Misrach and landscape architect and sustainability researcher, Kate Orff. Through a combination of Misrach's photographs and Orff's text and elaborate maps, *Petrochemical America* exposes the complex web of social, political, and environmental histories that have variously impacted the construction of place, home, and culture in an area that has come to be known as Cancer Alley. Misrach and Orff argue that Cancer Alley is not a localized phenomenon, but rather is indicative of the ideological landscape of the entire country. Through their compendium of surreal images of homes dwarfed by chemical plants, pipelines cutting through swamps, and preserved slave quarters, Misrach and Orff create an otherworldly environment, a place that is wholly American. The authors draw explicit links—through both image and text—between Louisiana's past as a slave state and its present as the largest crude oil producer in the nation. Through narratives of production, consumption, displacement, and health, the present Cancer Alley—and indeed the nation—emerge as reiterations of history. While *Petrochemical America* has been exhibited around the country, published in a book which is now in its second edition, and received critical praise, it has yet to be studied within the three histories that frame the project—race, capitalism, and the environment. Through a close reading of *Petrochemical America* in both its exhibition and photobook form, this essay seeks to explore how the project points to a new paradigm of the American landscape—a landscape that is haunted by its slaveholding past.

Since the publication of Richard Misrach's bestselling and critically acclaimed publication *On the Beach*, he has continued to photograph at the same location, building a body of work that has been exhibited as *On the Beach 2.0*--a reference to the technological and optical developments that have made the intensely detailed, exquisitely rendered depictions possible. *The Mysterious Opacity of Other Beings* focuses less on the abstraction of water, sand and mote-sized figures, instead honing in on the gestures and expressions of bathers adrift in the ocean. Misrach has rarely ventured into portraiture; this work is his first to focus exclusively on the human figure. Each photograph features one or more individuals crisply rendered from a distance, as they seem to levitate among turquoise waves, isolated from everything save the shifting patterns of the ocean. There is ambiguity and a sense of the uncanny in the figures suspended in the water: are they approaching the shore or moving away from it? Each image is presented both as full frame and as a series of enlarged details that enable the viewer to linger on each individual's surrender of their body to the sea.

The supply of petroleum continues to dwindle at an alarming rate, yet it is the source of a range of products- from gasoline and diesel to plastic, rubber, and synthetic fiber. Critical to the future of this commodity is that we learn to use it more judiciously and efficiently. *Fundamentals of Petroleum and Petrochemical Engineering* provides a holistic approach to the future of this commodity. While there are many resources available on fire protection and prevention in chemical petrochemical and petroleum plants—this is the first book that pulls them all together in one comprehensive resource. This book provides the tools to develop, implement, and integrate a fire protection program into a company or facility's Risk Management System. This definitive volume is a must-read for loss prevention managers, site managers, project managers, engineers and EHS professionals. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Instant #1 New York Times bestseller. "The Atlantic writer drafts a history of slavery in this country unlike anything you've read before" (Entertainment Weekly). Beginning in his

hometown of New Orleans, Clint Smith leads the reader on an unforgettable tour of monuments and landmarks—those that are honest about the past and those that are not—that offer an intergenerational story of how slavery has been central in shaping our nation's collective history, and ourselves. It is the story of the Monticello Plantation in Virginia, the estate where Thomas Jefferson wrote letters espousing the urgent need for liberty while enslaving more than four hundred people. It is the story of the Whitney Plantation, one of the only former plantations devoted to preserving the experience of the enslaved people whose lives and work sustained it. It is the story of Angola, a former plantation-turned-maximum-security prison in Louisiana that is filled with Black men who work across the 18,000-acre land for virtually no pay. And it is the story of Blandford Cemetery, the final resting place of tens of thousands of Confederate soldiers. A deeply researched and transporting exploration of the legacy of slavery and its imprint on centuries of American history, *How the Word Is Passed* illustrates how some of our country's most essential stories are hidden in plain view—whether in places we might drive by on our way to work, holidays such as Juneteenth, or entire neighborhoods like downtown Manhattan, where the brutal history of the trade in enslaved men, women, and children has been deeply imprinted. Informed by scholarship and brought to life by the story of people living today, Smith's debut work of nonfiction is a landmark of reflection and insight that offers a new understanding of the hopeful role that memory and history can play in making sense of our country and how it has come to be.

Topics include design and evaluation philosophy, seismic hazards such as ground shaking, fault rupture, and tsunamis, analysis and load definition, primary structural design criteria and considerations, walkdown evaluations of existing facilities, design and evaluation of tanks at grade, and retrofit design and procedures for seismically deficit structures.

During the last decade, the South American continent has seen a strong push for transnational integration, initiated by the former Brazilian president Fernando Henrique Cardoso, who (with the endorsement of eleven other nations) spearheaded the Initiative for the Integration of Regional Infrastructure in South America (IIRSA), a comprehensive energy, transport, and communications network. The most aggressive transcontinental integration project ever planned for South America, the initiative systematically deploys ten east-west infrastructural corridors, enhancing economic development but raising important questions about the polarizing effect of pitting regional needs against the colossal processes of resource extraction. Providing much-needed historical contextualization to IIRSA's agenda, *Beyond the City* ties together a series of spatial models and offers a survey of regional strategies in five case studies of often overlooked sites built outside the traditional South American urban constructs. Implementing the term "resource extraction urbanism," the architect and urbanist Felipe Correa takes us from Brazil's nineteenth-century regional capital city of Belo Horizonte to the experimental, circular, "temporary" city of Vila Piloto in Três Lagoas. In Chile, he surveys the mining town of María Elena. In Venezuela, he explores petrochemical encampments at Judibana and El Tablazo, as well as new industrial frontiers at Ciudad Guayana. The result is both a cautionary tale, bringing to light a history of societies that were "inscribed" and administered, and a perceptive examination of the agency of architecture and urban planning in shaping South American lives.

Integration of Science and Technology with Development: Caribbean and Latin American Problems in the Context of the United Nations Conference on Science and Technology for Development discusses the science and technology (S&T) problems in developing countries of the Western hemisphere. This book is organized into five parts encompassing 20 chapters. The five parts deal with the issues arising from the basic propositions of the United Nations Conference on Science and Technology for Development (UNCSTD), such as the problems involving building up S&T capability, infrastructure and technology transfer, technological problems in the Caribbean. Other issues discussed include the science and technology policies in Latin America, and the UNCSTD symposium preparations. The book ends with a presentation of a brief debate on the topics of research on science and technology in Latin America and the Caribbean, and with a report of the Symposium.

Kate Orff, 2017 MacArthur Fellow, has an optimistic and transformative message about our world: we can bring together social and ecological systems to sustainably remake our cities and landscapes. Part monograph, part manual, part manifesto, *Toward an Urban Ecology* reconceives urban landscape design as a form of activism, demonstrating how to move beyond familiar and increasingly outmoded ways of thinking about environmental, urban, and social issues as separate domains; and advocating for the synthesis of practice to create a truly urban ecology. In purely practical terms, SCAPE has already generated numerous tools and techniques that designers, policy makers, and communities can use to address some of the most pressing issues of our time, including the loss of biodiversity, the loss of social cohesion, and ecological degradation. *Toward an Urban Ecology* features numerous projects and select research from SCAPE, and conveys a range of strategies to engender a more resilient and inclusive built environment.

"The photographs in this volume are untitled: they are presented in chronological order from November 20, 2011, 4:07 p.m. to January 28, 2014, 1:12 p.m."--Colophon.

INVESTIGATIVE REPORTERS & EDITORS Book Award, Finalist 2014 "A fascinating discussion of a multifaceted issue and a passionate call to action" --Kirkus From the acclaimed author of *Four Fish* and *The Omega Principle*, Paul Greenberg uncovers the tragic unraveling of the nation's seafood supply—telling the surprising story of why Americans stopped eating from their own waters in *American Catch*. In 2005, the United States imported five billion pounds of seafood, nearly double what we imported twenty years earlier. Bizarrely, during that same period, our seafood exports quadrupled. *American Catch* examines New York oysters, Gulf shrimp, and Alaskan salmon to reveal how it came to be that 91 percent of the seafood Americans eat is foreign. In the 1920s, the average New Yorker ate six hundred local oysters a year. Today, the only edible oysters lie outside city limits. Following the trail of environmental desecration, Greenberg comes to view the New York City oyster as a reminder of what is lost when local waters are not valued as a food source. Farther south, a different catastrophe threatens another seafood-rich environment. When Greenberg visits the Gulf of Mexico, he arrives expecting to

learn of the Deepwater Horizon oil spill's lingering effects on shrimpers, but instead finds that the more immediate threat to business comes from overseas. Asian-farmed shrimp—cheap, abundant, and a perfect vehicle for the frying and sauces Americans love—have flooded the American market. Finally, Greenberg visits Bristol Bay, Alaska, home to the biggest wild sockeye salmon run left in the world. A pristine, productive fishery, Bristol Bay is now at great risk: The proposed Pebble Mine project could undermine the very spawning grounds that make this great run possible. In his search to discover why this precious renewable resource isn't better protected, Greenberg encounters a shocking truth: the great majority of Alaskan salmon is sent out of the country, much of it to Asia. Sockeye salmon is one of the most nutritionally dense animal proteins on the planet, yet Americans are shipping it abroad. Despite the challenges, hope abounds. In New York, Greenberg connects an oyster restoration project with a vision for how the bivalves might save the city from rising tides. In the Gulf, shrimpers band together to offer local catch direct to consumers. And in Bristol Bay, fishermen, environmentalists, and local Alaskans gather to roadblock Pebble Mine. With American Catch, Paul Greenberg proposes a way to break the current destructive patterns of consumption and return American catch back to American eaters.

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