



## [DOC] An Entirely Synthetic Fish: How Rainbow Trout Beguiled America And Overran The World

A rainbow trout, a species of fish

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A rainbow trout, a species of fish. The rainbow trout is a species of fish in the family Salmonidae. It is a member of the genus Oncorhynchus, which includes other species of trout and salmon. The rainbow trout is a popular sport fish and is also farmed for food. It is native to the Pacific Northwest of North America, but has been introduced to many other parts of the world.

**An Entirely Synthetic Fish**-Anders Halverson 2010-03-02 Anders Halverson provides an exhaustively researched and grippingly rendered account of the rainbow trout and why it has become the most commonly stocked and controversial freshwater fish in the United States. Discovered in the remote waters of northern California, rainbow trout have been artificially propagated and distributed for more than 130 years by government officials eager to present Americans with an opportunity to get back to nature by going fishing. Proudly dubbed an entirely synthetic fish by fisheries managers, the rainbow trout has been introduced into every state and province in the United States and Canada and to every continent except Antarctica, often with devastating effects on the native fauna. Halverson examines the paradoxes and reveals a range of characters, from nineteenth-century boosters who believed rainbows could be the saviors of democracy to twenty-first-century biologists who now seek to eradicate them from waters around the globe. Ultimately, the story of the rainbow trout is the story of our relationship with the natural world--how it has changed and how it startlingly has not.

**An Entirely Synthetic Fish**-Anders Halverson 2010 "Suppose that, more than a century ago, U.S. government officials became concerned that democracy itself was at risk because men seemed to be less virile. And to reverse this trend they decided to populate streams, rivers, and lakes with "an entirely 'synthetic' fish" - quarry that would allow Americans to rediscover their abilities to capture and kill animals. And suppose that, up to the present, and these creatures were still being produced and distributed on a massive scale, sometimes even being trained like gladiators and pumped full of the same supplements as professional athletes so they would provide a better fight." "Such is the true story of the rainbow trout. Sometimes vilified for their devastating effects on native fauna, sometimes glorified as the preeminent sport fish, the rainbow trout is the repository of more than a century of America's often contradictory philosophies about the natural world. This book chronicles the discovery of rainbow trout, their artificial propagation and distribution, and why they are being eradicated in some waters yet are still the most commonly stocked fish in the United States." --Résumé de l'éditeur.

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**Brook Trout**-Nick Karas 2015-11-03 North America has had a 400-year love affair with the brook trout - Salvelinus fontinalis- its great native trout. In this newly revised and updated volume, Nick Karas offers the only major profile of this most beautiful gamefish. Brook Trout is a thorough look at the history, biology, and angling possibilities of the fish most anglers affectionately call the brookie. Through the eyes of a trained ichthyologist, Karas explores the brook trout's biology and the events that led to its evolution and distribution. He unravels the controversies surrounding the two largest brook trout ever taken. But the core of this book is the fishery: its past status, current condition, and future. And because the history of brook trout fishing is inseparable from the history of American fishing, Karas follows the development of the rods, reels, lines, lures and flies that evolved as anglers pursued their fascination with this great game fish. Skyhorse Publishing is proud to publish a broad range of books for fishermen. Our books for anglers include titles that focus on fly fishing, bait fishing, fly-casting, spin casting, deep sea fishing, and surf fishing. Our books offer both practical advice on tackle, techniques, knots, and more, as well as lyrical prose on fishing for bass, trout, and more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to publishing books on subjects that are sometimes overlooked by other publishers and to authors whose work might not otherwise find a home.

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**Hunting and Fishing in the New South**-Scott E. Giltner 2008-10-29 This innovative study re-examines the dynamics of race relations in the post--Civil War South from an altogether fresh perspective: field sports. In the late nineteenth and early twentieth centuries, wealthy white men from Southern cities and the industrial North traveled to the hunting and fishing lodges of the old Confederacy -- escaping from the office to socialize among like-minded peers. These sportsmen depended on local black guides who knew the land and fishing holes and could ensure a successful outing. For whites, the ability to hunt and fish freely and employ black laborers became a conspicuous display of their wealth and social standing. But hunting and fishing had been a way of life for all Southerners -- blacks included -- since colonial times. After the war, African Americans used their mastery of these sports to enter into market activities normally denied people of color, thereby becoming more economically independent from their white employers. Whites came to view black participation in hunting and fishing as a serious threat to the South's labor system. Scott E. Giltner shows how African-American freedom developed in this racially tense environment -- how blacks' sense of competence and authority flourished in a Jim Crow setting. Giltner's thorough research using slave narratives, sportsmen's recollections, records of fish and game clubs, and sporting periodicals offers a unique perspective on the African-American struggle for independence from the end of the Civil War to the 1920s. -- Stephen A. West

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**Vicious**-Jon T. Coleman 2008-10-01 Over a continent and three centuries, American livestock owners destroyed wolves to protect the beasts that supplied them with food, clothing, mobility, and wealth. The brutality of the campaign soon exceeded wolves' misdeeds. Wolves menaced property, not people, but storytellers often depicted the animals as ravenous threats to human safety. Subjects of nightmares and legends, wolves fell prey not only to Americans' thirst for land and resources but also to their deeper anxieties about the untamed frontier. Now Americans study and protect wolves and jail hunters who shoot them without authorization. Wolves have become the poster beasts of the great American wilderness, and the federal government has paid millions of dollars to reintroduce them to scenic habitats like Yellowstone National Park. Why did Americans hate wolves for centuries? And, given the ferocity of this loathing, why are Americans now so protective of the animals? In this ambitious history of wolves in America--and of the humans who have hated and then loved them--Jon Coleman investigates a fraught relationship between two species and uncovers striking similarities, deadly differences, and, all too frequently, tragic misunderstanding.

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**An Introduction to the Aquatic Insects of North America**-Richard W. Merritt 1996

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**Four Fish**-Paul Greenberg 2010-07-15 "A necessary book for anyone truly interested in what we take from the sea to eat, and how, and why." --Sam Sifton, The New York Times Book Review. Acclaimed author of American Catch and The Omega Principle and life-long fisherman, Paul Greenberg takes us on a journey, examining the four fish that dominate our menus: salmon, sea bass, cod, and tuna. Investigating the forces that get fish to our dinner tables, Greenberg reveals our damaged relationship with the ocean and its inhabitants. Just three decades ago, nearly everything we ate from the sea was wild. Today, rampant overfishing and an unprecedented biotech revolution have brought us to a point where wild and farmed fish occupy equal parts of a complex marketplace. Four Fish offers a way for us to move toward a future in which healthy and sustainable seafood is the rule rather than the exception.

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**Carp and Pond Fish Culture**-László Horváth 2008-04-15 During the 10 years since publication of the first edition of thiswell-recieved book, the carp and pond fish farming industry hascontinued to grow steadily. Fully revised and updated, thiscomprehensive new edition provides a detailed and practical guideto the principles and practices of farming cyprinid fish, usingtraditional and modern pond culture techniques. Although concentrating primarily on carp culture, this can be regarded as a model for the production of many species in ponds;the most widely used method of producing fish throughout the world.Specific information is also included for other species, such asPike, Wels Catfish and Goldfish and now African Catfish andStarlet. The authors, who between them have many years' experiencefarming fish as well as researching and teaching the subjectcovered in the book, have produced a most useful and timely secondedition. The book will be of great interest to fish farmers, researchers,teachers and students in the area of aquaculture and relatedsubjects, to all those involved specifically in the carp farmingindustry and in the aquaculture of other pond-cultured species.Copies of the book should be available as a reference source inlibraries in academic and research establishments where aquacultureis studied an taught, and for practical reference on fishfarms.

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**Civic Ecology**-Marianne E. Krasny 2015-01-30 Stories of environmental stewardship in communities from New Orleans to Soweto accompany an interdisciplinary framework for understanding civic ecology as a global phenomenon.

**Four Fish**-Paul Greenberg 2010-07-15 "A necessary book for anyone truly interested in what we take from the sea to eat, and how, and why." --Sam Sifton, The New York Times Book Review. Acclaimed author of American Catch and The Omega Principle and life-long fisherman, Paul Greenberg takes us on a journey, examining the four fish that dominate our menus: salmon, sea bass, cod, and tuna. Investigating the forces that get fish to our dinner tables, Greenberg reveals our damaged relationship with the ocean and its inhabitants. Just three decades ago, nearly everything we ate from the sea was wild. Today, rampant overfishing and an unprecedented biotech revolution have brought us to a point where wild and farmed fish occupy equal parts of a complex marketplace. Four Fish offers a way for us to move toward a future in which healthy and sustainable seafood is the rule rather than the exception.

**Nymph Fishing**-George Daniel 2018-07-15 Best-selling author George Daniel shares expert tactics and techniques for a new generation of nymph anglers. He covers specialized equipment, flies, and presentations, focusing on advanced lessons and tips for anglers with a solid grasp of fundamentals. Important technique sequences and fly patterns are photographed in detail.

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**Fishing Through the Apocalypse**-Matthew L. Miller 2019-03-01 What does the future hold for fish and the people who pursue them? Fishing Through the Apocalypse explores that question through a series of fishing stories about the reality of the sport in the 21st century. Matthew Miller (director of science communications for The Nature Conservancy) explores fishing that might be considered dystopian: joining anglers as they stick their lines into trash-filled urban canals, or visiting farm ponds where you can catch giant, endangered fish for a fee. But it isn't all bleak. When it comes to fishing, the other part of the story is this: a cadre of anglers is looking to right past wrongs, to return native species, to remove dams, to appreciate the unappreciated fish, to clean our waters and protect public lands. As an angler and conservationist, Matt removes any and all preconceived notions about what it means to fish in the 21st century in order to see the different visions of the future that exist right here, right now. Fishing Through the Apocalypse offers one of the widest-ranging looks at fish conservation in the United States, and also includes some of the more unusual adventures ever featured in a fishing book. Features fishing adventures in: Idaho Colorado Wyoming New Mexico Utah Texas Florida Iowa Minnesota Illinois Washington DC Virginia Pennsylvania

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**Designing Greenways**-Paul Cawood Hellmund 2013-03-05 How are greenways designed? What situations lead to their genesis, and what examples best illustrate their potential for enhancing communities and the environment? Designing greenways is a key to protecting landscapes, allowing wildlife to move freely, and finding appropriate ways to bring people into nature. This book brings together examples from ecology, conservation biology, aquatic ecology, and recreation design to illustrate how greenways function and add value to ecosystems and human communities alike. Encompassing everything from urban trail corridors to river floodplains to wilderness-like linkages, greenways preserve or improve the integrity of the landscape, not only by stemming the loss of natural features, but also by engendering new natural and social functions. From 19th-century parks and parkways to projects still on the drawing boards, Designing Greenways is a fascinating introduction to the possibilities-and pitfalls-involved in these ambitious projects. As towns and cities look to greenways as a new way of reconciling man and nature, designers and planners will look to Designing Greenways as an invaluable compendium of best practices.

**American Sportsmen and the Origins of Conservation**-John F. Reiger 2001 "Praised as "one of the seminal works in conservation history" by historian Hal Rothman, Reiger's book continues to be essential reading for all concerned with how earlier Americans regarded the land, demonstrating even to those who oppose hunting that they share with sportsmen and sportswomen an awareness and appreciation of our fragile environment."-Jacket.

**Eating the Big Fish**-Adam Morgan 2009-02-17 EATING THE BIG FISH : How Challenger Brands Can Compete Against Brand Leaders, Second Edition, Revised and Expanded The second edition of the international bestseller, now revised and updated for 2009, just in time for the business challenges ahead. It contains over 25 new interviews and case histories, two completely new chapters, introduces a new typology of 12 different kinds of Challengers, has extensive updates of the main chapters, a range of new exercises, supplies weblinks to view interviews online and offers supplementary downloadable information.

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**The Quest for the Golden Trout**-Douglas M. Thompson 2013-09-22 The angler's dream of fishing pristine waters in unspoiled country for sleek, healthy trout has turned fishing into a form of theater. It is a manufactured experienceNmuch to the detriment of our rivers and streams. Americans' love of trout has reached a level of fervor that borders on the religious. Federal and state agencies, as well as nongovernmental lobbying groups, invest billions of dollars on river restoration

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projects and fish-stocking programs. Yet, their decisions are based on faulty logic and risk destroying species they are tasked with protecting. River ecosystems are modified with engineered structures to improve fishing, native species that compete with trout are eradicated, and nonnative invasive game fish are indiscriminately introduced, genetically modified, and selectively bred to produce more appealing targets for anglersNincluding the freakishly contrived "golden trout." The Quest for the Golden Trout is about looking at our nation's rivers with a more critical eyeNand asking more questions about both historic and current practices in fisheries management.

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**Flyfisher's Guide to Michigan**-Osborn, Jon 2018-10-30 Michigan is one of the best states in the nation for flyfishing, and Jon Osborn's all-new Flyfisher's Guide to Michigan details the outstanding fishing opportunities like no other guidebook on the market. The author covers the hot spots and lesser known fisheries with personal experiences, historical overviews, effective techniques for both warmwater and coldwater species and resident and anadromous species, stocking data, appropriate gear and flies, access points, nearby fly shops, approximate float times and much more. Photographer Hunter Brumels provides the visuals that paint the full picture of the fishing in this incredible state. With bonus coverage of nearby watering holes, anglers will have everything they need for many memorable days. From mainstays like the Au Sable, Pere Marquette, Muskegon and Manistee rivers to hidden gems like the Rabbit and Red Cedar rivers, Osborn has put in the river-time so that you can get down to business. Many more forks and tributaries are covered, including trout, steelhead, salmon, bass and pike fisheries. This book comes standard with Wilderness Adventures Press' precise and detailed full-color maps, with GPS coordinates for all access points, boat ramps, and parking areas, along with access roads, public land and more. As Lefty once said: "If someone can't find locations from these maps - they need to stay home." Whether you're a veteran fly angler or new to the sport, get an edge with this all-new guidebook.

**How to Grow a Robot**-Mark H. Lee 2020-05-26 How to develop robots that will be more like humans and less like computers, more social than machine-like, and more playful and less programmed. Most robots are not very friendly. They vacuum the rug, mow the lawn, dispose of bombs, even perform surgery—but they aren't good conversationalists. It's difficult to make eye contact. If the future promises more human-robot collaboration in both work and play, wouldn't it be better if the robots were less mechanical and more social? In How to Grow a Robot, Mark Lee explores how robots can be more human-like, friendly, and engaging. Developments in artificial intelligence—notably Deep Learning—are widely seen as the foundation on which our robot future will be built. These advances have already brought us self-driving cars and chess match-winning algorithms. But, Lee writes, we need robots that are perceptive, animated, and responsive—more like humans and less like computers, more social than machine-like, and more playful and less programmed. The way to achieve this, he argues, is to "grow" a robot so that it learns from experience—just as infants do. After describing "what's wrong with artificial intelligence" (one key shortcoming: it's not embodied), Lee presents a different approach to building human-like robots: developmental bototics, inspired by developmental psychology and its accounts of early infant behavior. He describes his own experiments with the iCub humanoid robot and its development from newborn helplessness to ability levels equal to a nine-month-old, explaining how the iCub learns from its own experiences. AI robots are designed to know humans as objects; developmental robots will learn empathy. Developmental robots, with an internal model of "self," will be better interactive partners with humans. That is the kind of future technology we should work toward.

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**Backcasts**-Samuel Snyder 2016-07-11 "Many of us probably would be better fishermen if we did not spend so much time watching and waiting for the world to become perfect."--Norman Maclean Though Maclean writes of an age-old focus of all anglers—the day's catch—he may as well be speaking to another, deeper accomplishment of the best fishermen and fisherwomen: the preservation of natural resources. Backcasts celebrates this centuries-old confluence of fly fishing and conservation. However religious, however patiently spiritual the tying and casting of the fly may be, no angler wishes to wade into rivers of industrial runoff or cast into waters devoid of fish or full of invasive species like the Asian carp. So it comes as no surprise that those who fish have long played an active, foundational role in the preservation, management, and restoration of the world's coldwater fisheries. With sections covering the history of fly fishing; the sport's global evolution, from the rivers of South Africa to Japan; the journeys of both native and nonnative trout; and the work of conservation organizations such as the Federation of Fly Fishers and Trout Unlimited, Backcasts casts wide. Highlighting the historical significance of outdoor recreation and sports to conservation in a collection important for fly anglers and scholars of fisheries ecology, conservation history, and environmental ethics, Backcasts explores both the problems anglers and their organizations face and how they might serve as models of conservation—in the individual trout streams, watersheds, and landscapes through which these waters flow.

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**Borne**-Jeff VanderMeer 2017-04-25 Named one of the most anticipated books of 2017 by The New York Times, The Huffington Post, Book Riot, Chicago Reader, The Week, and Publishers Weekly, "Am I a person?" Borne asked me. "Yes, you are a person," I told him. "But like a person, you can be a weapon, too." In Borne, a young woman named Rachel survives as a scavenger in a ruined city half destroyed by drought and conflict. The city is dangerous, littered with discarded experiments from the Company—a biotech firm now derelict—and punished by the unpredictable predations of a giant bear. Rachel ekes out an existence in the shelter of a run-down sanctuary she shares with her partner, Wick, who deals his own hometown psychoactive biotech. One day, Rachel finds Borne during a scavenging mission and takes him home. Borne as salvage is little more than a green lump—plant or animal?—but exudes a strange charisma. Borne reminds Rachel of the marine life from the island nation of her birth, now lost to rising seas. There is an attachment she resents: in this world any weakness can kill you. Yet, against her instincts—and definitely against Wick's wishes—Rachel keeps Borne. She cannot help herself. Borne, learning to speak, learning about the world, is fun to be with, and in a world so broken that innocence is a precious thing. For Borne makes Rachel see beauty in the desolation around her. She begins to feel a protectiveness she can ill afford. "He was born, but I had borne him." But as Borne grows, he begins to threaten the balance of power in the city and to put the security of her sanctuary with Wick at risk. For the Company, it seems, may not be truly dead, and new enemies are creeping in. What Borne will lay bare to Rachel as he changes is how precarious her existence has been, and how dependent on subterfuge and secrets. In the aftermath, nothing may ever be the same.

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**Out Of Control**-Kevin Kelly 2009-04-30 Out of Control chronicles the dawn of a new era in which the machines and systems that drive our economy are so complex and autonomous as to be indistinguishable from living things.

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**Water**-Julian Caldecott 2008-09-04 All known forms of life depend on water. Covering 71 per cent of the Earth's surface, water seems to be plentiful. But there are 1.2 billion people who currently live without a safe water supply, the amount of available drinking water is shrinking and the need for it is increasing relentlessly. While some regions are receiving too much rain, others are receiving too little. We are approaching a global water emergency. Julian Caldecott examines the vital role this fascinating substance plays on our planet and explores the historical, scientific, political and economic reasons behind the looming water crisis. He reveals where the water we use comes from, and at what social and environmental cost. This is an intriguing and sometimes unsettling portrait of the future of water in our changing world and what we can all do to make a difference.

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**Challengers, Competition, and Reelection**-Jonathan S. Krasno 1997-02-01 Why do US Senators have a harder time winning re-election than members of the House of Representatives? This text argues that Senate challengers are more likely to be experienced politicians who wage intense, costly media campaigns than are those who take on House incumbents.

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**What It's Like to Be a Bird**-David Allen Sibley 2020-04-14 The bird book for birders and nonbirders alike that will excite and inspire by providing a new and deeper understanding of what common, mostly backyard, birds are doing--and why "Can birds smell?" "Is this the same cardinal that was at my feeder last year?" "Do robins 'hear' worms?" In What It's Like to Be a Bird, David Sibley answers the most frequently asked questions about the birds we see most often. This special, large-format volume is geared as much to nonbirders as it is to the out-and-out obsessed, covering more than two hundred species and including more than 330 new illustrations by the author. While its focus is on familiar backyard birds--blue jays, nuthatches, chickadees--it also examines certain species that can be fairly easily observed, such as the seashore-dwelling Atlantic puffin. David Sibley's exacting artwork and wide-ranging expertise bring observed behaviors vividly to life. (For most species, the primary illustration is reproduced life-sized.) And while the text is aimed at adults--including fascinating new scientific research on the myriad ways birds have adapted to environmental changes--it is nontechnical, making it the perfect occasion for parents and grandparents to share their love of birds with young children, who will delight in the big, full-color illustrations of birds in action. Unlike any other book he has written, What It's Like to Be a Bird is poised to bring a whole new audience to David Sibley's world of birds.

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**The Diversity of Fishes**-Gene Helfman 2009-04-03 The second edition of The Diversity of Fishes represents a major revision of the world's most widely adopted ichthyology textbook. Expanded and updated, the second edition is illustrated throughout with striking color photographs depicting the spectacular evolutionary adaptations of the most ecologically and taxonomically diverse vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy, anatomy, physiology, biogeography, ecology, and behavior. A new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team of internationally-recognized authorities, the first edition of The Diversity of Fishes was received with enthusiasm and praise, and incorporated into ichthyology and fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and text. Companion resources site This book is accompanied by a resources site: www.wiley.com/go/helfman The site is being constantly updated by the author team and provides: · Related videos selected by the authors · Updates to the book since publication · Instructor resources · A chance to send in feedback

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**Tuna**-Richard Ellis 2009 Examines the natural history of the tuna, one of the world's most endangered marine animals, revealing how the increasing demand for sushi has caused a devastating overfishing of the tuna and detailing the implications of its potential extinction.

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**The Knowledge Machine: How Irrationality Created Modern Science**-Michael Strevens 2020-10-13 "The Knowledge Machine is the most stunningly illuminating book of the last several decades regarding the all-important scientific enterprise." --Rebecca Newberger Goldstein, author of Plato at the Googleplex A paradigm-shifting work, The Knowledge Machine revolutionizes our understanding of the origins and structure of science. • Why is science so powerful? • Why did it take so long—two thousand years after the invention of philosophy and mathematics—for the human race to start using science to learn the secrets of the universe? In a groundbreaking work that blends science, philosophy, and history, leading philosopher of science Michael Strevens answers these challenging questions, showing how science came about only once thinkers stumbled upon the astonishing idea that scientific breakthroughs could be accomplished by breaking the rules of logical argument. Like such classic works as Karl Popper's The Logic of Scientific Discovery and Thomas Kuhn's The Structure of Scientific Revolutions, The Knowledge Machine grapples with the meaning and origins of science, using a plethora of vivid historical examples to demonstrate that scientists willfully ignore religion, theoretical beauty, and even philosophy to embrace a constricted code of argument whose very narrowness channels unprecedented energy into empirical observation and experimentation. Strevens calls this scientific code the iron rule of explanation, and reveals the way in which the rule, precisely because it is unreasonably close-minded, overcomes individual prejudices to lead humanity inexorably toward the secrets of nature. "With a mixture of philosophical and historical argument, and written in an engrossing style" (Alan Ryan), The Knowledge Machine provides captivating portraits of some of the greatest luminaries in science's history, including Isaac Newton, the chief architect of modern science and its foundational theories of motion and gravitation; William Whewell, perhaps the greatest philosopher-scientist of the early nineteenth century; and Murray Gell-Mann, discoverer of the quark. Today, Strevens argues, in the face of threats from a changing climate and global pandemics, the idiosyncratic but highly effective scientific knowledge machine must be protected from politicians, commercial interests, and even scientists themselves who seek to open it up, to make it less narrow and more rational—and thus to undermine its devotedly empirical search for truth. Rich with illuminating and often delightfully quirky illustrations, The Knowledge Machine, written in a winningly accessible style that belies the import of its revisionist and groundbreaking concepts, radically reframes much of what we thought we knew about the origins of the modern world.

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**Thirst for Power**-Michael E. Webber 2016-04-26 Although it is widely understood that energy and water are the world's two most critical resources, their vital interconnections and vulnerabilities are less often recognized. This farsighted book offers a new, holistic way of thinking about energy and water—a big picture approach that reveals the interdependence of the two resources, identifies the seriousness of the challenges, and lays out an optimistic approach with an array of solutions to ensure the continuing sustainability of both. Michael Webber, a leader and teacher in the field of energy technology and policy, explains how energy and water supplies are linked and how problems in either can be crippling for the other. He shows that current population growth, economic growth, climate change, and short-sighted policies are likely to make things worse. Yet, Webber asserts, more integrated planning with long-term sustainability in mind can avert such a daunting future. Combining anecdotes and personal stories with insights into the latest science of energy and water, he identifies a hopeful path toward wise long-range water-energy decisions and a more reliable and abundant future for humanity.

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**Conservation Biology in Sub-Saharan Africa**-Richard Primack 2019-09-10 Conservation Biology in Sub-Saharan Africa comprehensively explores the challenges and potential solutions to key conservation issues in Sub-Saharan Africa. Easy to read, this lucid and accessible textbook includes fifteen chapters that cover a full range of conservation topics, including threats to biodiversity, environmental laws, and protected areas management, as well as related topics such as sustainability, poverty, and human-wildlife conflict. This rich resource also includes a background discussion of what conservation biology is, a wide range of theoretical approaches to the subject, and concrete examples of conservation practice in specific African contexts. Strategies are outlined to protect biodiversity whilst promoting economic development in the region. Boxes covering specific themes written by scientists who live and work throughout the region are included in each chapter, together with recommended readings and suggested discussion topics. Each chapter also includes an extensive bibliography. Conservation Biology in Sub-Saharan Africa provides the most up-to-date study in the field. It is an essential resource, available on-line without charge, for undergraduate and graduate students, as well as a handy guide for professionals working to stop the rapid loss of biodiversity in Sub-Saharan Africa and elsewhere.

**On Food and Cooking**-Harold McGee 2007-03-20 Harold McGee's On Food and Cooking is a kitchen classic. Hailed by Time magazine as "a minor masterpiece" when it first appeared in 1984, On Food and Cooking is the bible to which food lovers and professional chefs worldwide turn for an understanding of where our foods come from, what exactly they're made of, and how cooking transforms them into something new and delicious. Now, for its twentieth anniversary, Harold McGee has prepared a new, fully revised and updated edition of On Food and Cooking. He has rewritten the text almost completely, expanded it by two-thirds, and commissioned more than 100 new illustrations. As compulsively readable and engaging as ever, the new On Food and Cooking provides countless eye-opening insights into food, its preparation, and its enjoyment. On Food and Cooking pioneered the translation of technical food science into cook-friendly kitchen science and helped give birth to the inventive culinary movement known as "molecular gastronomy." Though other books have now been written about kitchen science, On Food and Cooking remains unmatched in the accuracy, clarity, and thoroughness of its explanations, and the intriguing way in which it blends science with the historical evolution of foods and cooking techniques. Among the major themes addressed throughout this new edition are: Traditional and modern methods of food production and their influences on food quality The great diversity of methods by which people in different places and times have prepared the same ingredients Tips for selecting the best ingredients and preparing them successfully The particular substances that give foods their flavors and that give us pleasure Our evolving knowledge of the health benefits and risks of foods On Food and Cooking is an invaluable and monumental compendium of basic information about ingredients, cooking methods, and the pleasures of eating. It will delight and fascinate anyone who has ever cooked, savored, or wondered about food.

**Ditch in Time**-Patricia Nelson Limerick 2016-05-01 Tracing the origins and growth of the Denver Water Department, this study of water and its unique role and history in the West, as well as in the nation, raises questions about the complex relationship among cities, suburbs, and rural areas, allowing us to consider this precious resource and its past, present, and future with both optimism and realism.

**Pesticides**-Sonia Soloneski 2014-02-20 The edited book Pesticides - Toxic Aspects contains an overview of attractive researchers of pesticide toxicology that covers the hazardous effects of common chemical pesticide agents employed every day in our agricultural practices. The combination of experimental and theoretical pesticide investigations of current interest will make this book of significance to researchers, scientists, engineers, and graduate students who make use of those different investigations to understand the toxic aspects of pesticides. We hope that this book will continue to meet the expectations and needs of all interested in different aspects of pesticide toxicity.

**Applied Fish Pharmacology**-K.M. Treves-Brown 2013-04-18 As aquaculture continues to expand there is a need for greater knowledge of medicinal treatments both for the prevention and treatment of disease and for the economic husbandry of fish. This book, the first of its kind, is written for a worldwide readership. It is a reference manual for anyone involved in the selection of medicines for administration to fish. It will also be useful to administrators concerned with the legal control of aquaculture. The first part covers issues which affect all medicine's methods of administering drugs to fish, the various aspects of safety and the relevant legislation in countries with important aquacultural industries. Subsequent parts review the range of available medicinal substances and present current knowledge of the pharmacology and methods of use for each. Particular attention is given to safety issues - for the fish, for the person administering the medicine, for

the consumer of medicated fish and for the environment.

**The Old Man and the Boy**-Robert Ruark 1993-08-15 Recalls the close relationship between a boy and his remarkable grandfather

**Climate Change from the Streets**-Michael Méndez 2020-01-07 An urgent and timely story of the contentious politics of incorporating environmental justice into global climate change policy Although the science of climate change is clear, policy decisions about how to respond to its effects remain contentious. Even when such decisions claim to be guided by objective knowledge, they are made and implemented through political institutions and relationships—and all the competing interests and power struggles that this implies. Michael Méndez tells a timely story of people, place, and power in the context of climate change and inequality. He explores the perspectives and influence low-income people of color bring to their advocacy work on climate change. In California, activist groups have galvanized behind issues such as air pollution, poverty alleviation, and green jobs to advance equitable climate solutions at the local, state, and global levels. Arguing that environmental protection and improving public health are inextricably linked, Mendez contends that we must incorporate local knowledge, culture, and history into policymaking to fully address the global complexities of climate change and the real threats facing our local communities.

**Nine Pints**-Rose George 2018-10-23 An eye-opening exploration of blood, the lifegiving substance with the power of taboo, the value of diamonds and the promise of breakthrough science Blood carries life, yet the sight of it makes people faint. It is a waste product and a commodity pricier than oil. It can save lives and transmit deadly infections. Each one of us has roughly nine pints of it, yet many don't even know their own blood type. And for all its ubiquitousness, the few tablespoons of blood discharged by 800 million women are still regarded as taboo: menstruation is perhaps the single most demonized biological event. Rose George, author of The Big Necessity, is renowned for her intrepid work on topics that are invisible but vitally important. In Nine Pints, she takes us from ancient practices of bloodletting to the breakthrough of the "liquid biopsy," which promises to diagnose cancer and other diseases with a simple blood test. She introduces Janet Vaughan, who set up the world's first system of mass blood donation during the Blitz, and Arunachalam Muruganatham, known as "Menstrual Man" for his work on sanitary pads for developing countries. She probes the lucrative business of plasma transfusions, in which the US is known as the "OPEC of plasma." And she looks to the future, as researchers seek to bring synthetic blood to a hospital near you. Spanning science and politics, stories and global epidemics, Nine Pints reveals our life's blood in an entirely new light. Nine Pints was named one of Bill Gates recommended summer reading titles for 2019.

**Small-Scale Aquaponic Food Production**-Food and Agriculture Organization of the United Nations 2015-12-30 Aquaponics is the integration of aquaculture and soilless culture in a closed production system. This manual details aquaponics for small-scale production—predominantly for home use. It is divided into nine chapters and seven annexes, with each chapter dedicated to an individual module of aquaponics. The target audience for this manual is agriculture extension agents, regional fisheries officers, non-governmental organizations, community organizers, government ministers, companies and singles worldwide. The intention is to bring a general understanding of aquaponics to people who previously may have only known about one aspect.