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### Longitude

## The True Story of a Lone Genius Who Solved the Greatest Scientific Problem of His Time

*Bloomsbury Publishing USA* **The dramatic human story of an epic scientific quest and of one man's forty-year obsession to find a solution to the thorniest scientific dilemma of the day--"the longitude problem." Anyone alive in the eighteenth century would have known that "the longitude problem" was the thorniest scientific dilemma of the day-and had been for centuries. Lacking the ability to measure their longitude, sailors throughout the great ages of exploration had been literally lost at sea as soon as they lost sight of land. Thousands of lives and the increasing fortunes of nations hung on a resolution. One man, John Harrison, in complete opposition to the scientific community, dared to imagine a mechanical solution-a clock that would keep precise time at sea, something no clock had ever been able to do on land. Longitude is the dramatic human story of an epic scientific quest and of Harrison's forty-year obsession with building his perfect timekeeper, known today as the chronometer. Full of heroism and chicanery, it is also a fascinating brief history of astronomy, navigation, and clockmaking, and opens a new window on our world.**

### Longitude

## The True Story of a Lone Genius Who Solved the Greatest Scientific Problem of His Time

*Bloomsbury Publishing USA* **Describes the forty-year effort of John Harrison to invent the chronometer, the first instrument able to keep accurate time for navigational purposes**

### Remoteness Reconsidered

## The Atacama Desert and International Law

*University of Michigan Press* **When the margin IS the center, perspectives shift**

### Pillaging the Empire

## Global Piracy on the High Seas, 1500-1750

*Routledge* **Between 1500 and 1750, European expansion and global interaction produced vast wealth. As goods traveled by ship along new global trade routes, piracy also flourished on the world's seas. Pillaging the Empire tells the fascinating story of maritime predation in this period, including the perspectives of both pirates and their victims. Brushing aside the romantic legends of piracy, Kris Lane pays careful attention to the varied circumstances and motives that led to the rise of this bloodthirsty pursuit of riches, and places the history of piracy in the context of early modern empire building. This second edition of Pillaging the Empire has been revised and expanded to incorporate the latest scholarship on piracy, maritime law, and early modern state formation. With a new chapter on piracy in East and Southeast Asia, Lane considers piracy as a global phenomenon. Filled with colorful details and stories of individual pirates from Francis Drake to the women pirates Ann Bonny and Mary Read, this engaging narrative will be of interest to all those studying the history of Latin America, the Atlantic world, and the global empires of the early modern era.**

## Longitude

### The True Story of a Lone Genius Who Solved the Greatest Scientific Problem of His Time

*Macmillan* Describes the forty-year effort of John Harrison to invent the chronometer, the first instrument able to keep accurate time for navigational purposes.

## Galileo's Daughter

### A Historical Memoir of Science, Faith and Love

*Bloomsbury Publishing USA* Inspired by a long fascination with Galileo, and by the remarkable surviving letters of Galileo's daughter, a cloistered nun, Dava Sobel has written a biography unlike any other of the man Albert Einstein called "the father of modern physics- indeed of modern science altogether." Galileo's Daughter also presents a stunning portrait of a person hitherto lost to history, described by her father as "a woman of exquisite mind, singular goodness, and most tenderly attached to me." Galileo's Daughter dramatically recolors the personality and accomplishment of a mythic figure whose seventeenth-century clash with Catholic doctrine continues to define the schism between science and religion. Moving between Galileo's grand public life and Maria Celeste's sequestered world, Sobel illuminates the Florence of the Medicis and the papal court in Rome during the pivotal era when humanity's perception of its place in the cosmos was about to be overturned. In that same time, while the bubonic plague wreaked its terrible devastation and the Thirty Years' War tipped fortunes across Europe, one man sought to reconcile the Heaven he revered as a good Catholic with the heavens he revealed through his telescope. With all the human drama and scientific adventure that distinguished Dava Sobel's previous book Longitude, Galileo's Daughter is an unforgettable story

## The Power of Stars

### How Celestial Observations Have Shaped Civilization

*Springer Science & Business Media* What are some of the connections that bind us to the stars? How have these connections been established? And how have people all around the world and throughout time reacted to the night sky, the sun and moon, in their poetry, mythology, rituals, and temples? This book explores the influence of the sky on both ancient and modern civilization, by providing a clear overview of the many ways in which humans have used the stars as an ordering principle in their cultures, and which today still inspire us intellectually, emotionally, and spiritually. The book explores constellation lore from around the world, celestial alignments of monuments and temples, both from ancient and modern civilizations, and the role the sky has played in the cultures of the Greek, Egyptian, Babylonian, Native American, Chinese, Mayan, Aztec, and Inca. Models of the universe from each of these cultures are described clearly, and each culture's explanation of the stars, planets, and other celestial objects are described. The roots of astronomy and astrology are presented with original imagery and reproductions of ancient manuscripts that portray the structure of the physical universe as conceived by a diverse array of human cultures over the centuries. Our own scientific Big Bang cosmology and the origin of stars and elements are discussed in a philosophical context, to explore how we as modern people learn about the Universe, and incorporate the findings of science into our world views. A concluding chapter provides a summary of modern science's effort to unlock the celestial secrets from the sky and from past civilizations, and what these answers mean for us today.

## A Memory of Ice

### The Antarctic Voyage of the Glomar Challenger

*ANU Press* In the southern summer of 1972/73, the Glomar Challenger was the first vessel of the international Deep Sea Drilling Project to venture into the seas surrounding Antarctica, confronting severe weather and ever-present icebergs. A Memory of Ice presents the science and the excitement of that voyage in a manner readable for non-scientists. Woven into the modern story is the history of early explorers, scientists and navigators who had gone before into the Southern Ocean. The departure of the Glomar Challenger from Fremantle took place 100 years after the HMS Challenger weighed anchor from Portsmouth, England, at the start of its four-year voyage, sampling and dredging the world's oceans. Sailing south, the Glomar Challenger crossed the path of James Cook's HMS Resolution, then on its circumnavigation of Antarctica in search of the Great South Land. Encounters with Lieutenant Charles Wilkes of the US Exploring Expedition and Douglas Mawson of the Australasian Antarctic Expedition followed. In the Ross Sea, the voyages of the HMS Erebus and HMS Terror under James Clark Ross, with the young Joseph Hooker as botanist, were ever present. The story of the Glomar Challenger's iconic voyage is largely told through the diaries of the author, then

a young scientist experiencing science at sea for the first time. It weaves together the physical history of Antarctica with how we have come to our current knowledge of the polar continent. This is an attractive, lavishly illustrated and curiosity-satisfying read for the general public as well as for scholars of science.

## Navigational Enterprises in Europe and its Empires, 1730–1850

*Springer* This book explores the development of navigation in the eighteenth and nineteenth centuries. It examines the role of men of science, seamen and practitioners across Europe, and the realities of navigational practice, showing that old and new methods were complementary not exclusive, their use dependent on many competing factors.

## Zero Degrees

## Geographies of the Prime Meridian

*Harvard University Press* Charles Withers explains how the choice of Greenwich to mark 0° longitude solved problems of global measurement that had engaged geographers, astronomers, and mariners since ancient times. This history is a testament to the power of maps, the challenges of global measurement, and the role of scientific authority in creating the modern world.

## Oceanic History: Oxford Bibliographies Online Research Guide

*Oxford University Press* This ebook is a selective guide designed to help scholars and students of the ancient world find reliable sources of information by directing them to the best available scholarly materials in whatever form or format they appear from books, chapters, and journal articles to online archives, electronic data sets, and blogs. Written by a leading international authority on the subject, the ebook provides bibliographic information supported by direct recommendations about which sources to consult and editorial commentary to make it clear how the cited sources are interrelated. This ebook is just one of many articles from Oxford Bibliographies Online: Atlantic History, a continuously updated and growing online resource designed to provide authoritative guidance through the scholarship and other materials relevant to the study of Atlantic History, the study of the transnational interconnections between Europe, North America, South America, and Africa, particularly in the early modern and colonial period. Oxford Bibliographies Online covers most subject disciplines within the social science and humanities, for more information visit [www.oxfordbibliographies.com](http://www.oxfordbibliographies.com).

## Sam Coverly's Journal with Historical Notes

## Traveling and Trading in the Early Republic

*Cambridge Scholars Publishing* Sam Coverly was an entrepreneur and an adventurous traveler. His trading took him to China and England, to Montreal and Washington, DC, and as far west as the Missouri Territory. His detailed descriptions of the people and places he visits will appeal to students of early American history and maritime and cultural historians. Born in 1793, the same year as George Washington began his second term as President of the United States, Sam lived to see national roads and a canal built to the western frontier and steamboats plying rivers and lakes. He saw a ten-fold population increase in his beloved Boston and a doubling of the country's landmass. His journal and correspondence provide readers with eyewitness accounts of life in a rapidly expanding country at the threshold of industrialization and a transportation revolution.

## Kendall's Longitude

*Austin Macauley* Maritime navigational tools could find latitude, but finding longitude remained elusive until Harrison developed the reliable sea clock, H4. Building on H4's success, Kendall made a series of nautical timekeepers, K1, K2 and K3. This is the story of the K2 timekeeper; its adventurous voyages, the people it touched, and its place in history. K2's first voyage, accompanied by the young Nelson, was nearly its last in the crushing Arctic ice. The next two expeditions saw it survive kidnappings, nautical intrigue, and gunpowder plots of the American revolutionary wars. The slave coasts of Africa followed. Bligh took K2 on the *Bounty*, but lost it in a fight with the mutineers in 1789. It was recovered by an American Quaker from Nantucket, only to be stolen by the Spanish. It rode on mules along the Andes before sailing into the Opium Wars. K2 finally returned to Greenwich in 1963. DRAMATIC, THREE NATION 'STORY OF TIME'

## Breverton's Nautical Curiosities

*Quercus* **Breverton's Nautical Curiosities** is about ships, people and the sea. However, unlike many other nautical compendiums, the focus of this book is on the unusual, the overlooked or the downright extraordinary. Thus, someone most of us do not know, Admiral William Brown, is given equal coverage to Admiral Nelson. Without Admiral Brown releasing Garibaldi, modern Italy might not exist. And without the barely known genius John Ericsson designing the Monitor, the Confederacy might have won the American Civil War. Readers will be stimulated to read more about the remarkable men--explorers, admirals and trawlermen--who have shaped our world. The sea has had a remarkable effect upon our language. We hear the terms "steer clear," "hit the deck," "don't rock the boat," "to harbor a grudge" and the like, and give little thought to them. In the pages of this book, the reader will find the origin of "bumpkin," a "brace of shakes," "born with a silver spoon," "booby prize," "to take on board," "above board," "bombed" (in the sense of being drunk), the "blues," "blind-side," "blind drunk," "the pot calling the kettle black," "reach the bitter end," "wasters," "ahoy," "all at sea," "to keep aloof," "piss-artist," "taken aback," "barbecue" and "bamboozle." Other colourful terms, which have passed out of common usage, such as "bring one's arse to anchor" (sit down), "belly timber" (food) and "bog orange" (potato) are also included, as well as important pirate haunts, technical terms, famous battles, maritime inventors and ship speed records.

## Sun Moon Earth

### The History of Solar Eclipses from Omens of Doom to Einstein and Exoplanets

*Basic Books* **With beautiful illustrations and a detailed map, Sun Moon Earth** has everything you need to get ready for the next solar eclipse. On April 8, 2024, millions of Americans will experience an awe-inspiring phenomenon: a total eclipse of the sun. In *Sun Moon Earth*, astronomer Tyler Nordgren illustrates how this most seemingly unnatural of natural phenomena was transformed from a fearsome omen to a tourist attraction. From the astrologers of ancient China and Babylon to the high priests of the Maya, *Sun Moon Earth* takes us around the world to show how different cultures interpreted these dramatic events. Greek philosophers discovered eclipses' cause and used them to measure their world and the cosmos beyond. Victorian-era scientists mounted eclipse expeditions during the age of globe-spanning empires. And modern-day physicists continue to use eclipses to confirm Einstein's theory of relativity. Beautifully illustrated and lyrically written, *Sun Moon Earth* is the ideal guide for all eclipse watchers and star gazers alike.

## The History of Cartography, Volume 4

### Cartography in the European Enlightenment

*University of Chicago Press* Since its launch in 1987, the *History of Cartography* series has garnered critical acclaim and sparked a new generation of interdisciplinary scholarship. *Cartography in the European Enlightenment*, the highly anticipated fourth volume, offers a comprehensive overview of the cartographic practices of Europeans, Russians, and the Ottomans, both at home and in overseas territories, from 1650 to 1800. The social and intellectual changes that swept Enlightenment Europe also transformed many of its mapmaking practices. A new emphasis on geometric principles gave rise to improved tools for measuring and mapping the world, even as large-scale cartographic projects became possible under the aegis of powerful states. Yet older mapping practices persisted: Enlightenment cartography encompassed a wide variety of processes for making, circulating, and using maps of different types. The volume's more than four hundred encyclopedic articles explore the era's mapping, covering topics both detailed—such as geodetic surveying, thematic mapping, and map collecting—and broad, such as women and cartography, cartography and the economy, and the art and design of maps. Copious bibliographical references and nearly one thousand full-color illustrations complement the detailed entries.

## Sync

### How Order Emerges from Chaos In the Universe, Nature, and Daily Life

*Hachette Books* **At the heart of the universe is a steady, insistent beat, the sound of cycles in sync. Along the tidal rivers of Malaysia, thousands of fireflies congregate and flash in unison; the moon spins in perfect resonance with its orbit around the earth; our hearts depend on the synchronous firing of ten thousand pacemaker cells. While the forces that synchronize the flashing of fireflies may seem to have nothing to do with our heart cells, there is in fact a deep connection. Synchrony is a science in its infancy, and Strogatz is a pioneer in this new frontier in which**

mathematicians and physicists attempt to pinpoint just how spontaneous order emerges from chaos. From underground caves in Texas where a French scientist spent six months alone tracking his sleep-wake cycle, to the home of a Dutch physicist who in 1665 discovered two of his pendulum clocks swinging in perfect time, this fascinating book spans disciplines, continents, and centuries. Engagingly written for readers of books such as *Chaos* and *The Elegant Universe*, *Sync* is a tour-de-force of nonfiction writing.

## Fifty Inventions That Shaped the Modern Economy

*Penguin* NAMED A BEST BOOK OF 2017 by BLOOMBERG BUSINESSWEEK, THE FINANCIAL TIMES, AND AMAZON Look out for Tim's next book, *The Data Detective*. A lively history seen through the fifty inventions that shaped it most profoundly, by the bestselling author of *The Undercover Economist* and *Messy*. Who thought up paper money? What was the secret element that made the Gutenberg printing press possible? And what is the connection between *The Da Vinci Code* and the collapse of Lehman Brothers? *Fifty Inventions That Shaped the Modern Economy* paints an epic picture of change in an intimate way by telling the stories of the tools, people, and ideas that had far-reaching consequences for all of us. From the plough to artificial intelligence, from Gillette's disposable razor to IKEA's Billy bookcase, bestselling author and Financial Times columnist Tim Harford recounts each invention's own curious, surprising, and memorable story. Invention by invention, Harford reflects on how we got here and where we might go next. He lays bare often unexpected connections: how the bar code undermined family corner stores, and why the gramophone widened inequality. In the process, he introduces characters who developed some of these inventions, profited from them, and were ruined by them, as he traces the principles that helped explain their transformative effects. The result is a wise and witty book of history, economics, and biography.

## Teaching World History in the Twenty-first Century: A Resource Book

### A Resource Book

*Routledge* This practical handbook is designed to help anyone who is preparing to teach a world history course - or wants to teach it better. It includes contributions by experienced teachers who are reshaping world history education, and features new approaches to the subject as well as classroom-tested practices that have markedly improved world history teaching.

## Weird Ideas That Work

### 11 1/2 Practices for Promoting, Managing, and Sustaining Innovation

*Simon and Schuster* A breakthrough in management thinking, "weird ideas" can help every organization achieve a balance between sustaining performance and fostering new ideas. To succeed, you need to be both conventional and counterintuitive. Creativity, new ideas, innovation—in any age they are keys to success. Yet, as Stanford professor Robert Sutton explains, the standard rules of business behavior and management are precisely the opposite of what it takes to build an innovative company. We are told to hire people who will fit in; to train them extensively; and to work to instill a corporate culture in every employee. In fact, in order to foster creativity, we should hire misfits, goad them to fight, and pay them to defy convention and undermine the prevailing culture. *Weird Ideas That Work* codifies these and other proven counterintuitive ideas to help you turn your workplace from staid and safe to wild and woolly—and creative. In *Weird Ideas That Work* Sutton draws on extensive research in behavioral psychology to explain how innovation can be fostered in hiring, managing, and motivating people; building teams; making decisions; and interacting with outsiders. Business practices like "hire people who make you uncomfortable" and "reward success and failure, but punish inaction," strike many managers as strange or even downright wrong. Yet *Weird Ideas That Work* shows how some of the best teams and companies use these and other counterintuitive practices to crank out new ideas, and it demonstrates that every company can reap sales and profits from such creativity. *Weird Ideas That Work* is filled with examples, drawn from hi- and low-tech industries, manufacturing and services, information and products. More than just a set of bizarre suggestions, it represents a breakthrough in management thinking: Sutton shows that the practices we need to sustain performance are in constant tension with those that foster new ideas. The trick is to choose the right balance between conventional and "weird"—and now, thanks to Robert Sutton's work, we have the tools we need to do so.

## Granville Sharp's Cases on Slavery

*Bloomsbury Publishing* The purpose of *Granville Sharpe's Cases on Slavery* is twofold: first, to publish previously unpublished legal materials principally in three important cases in the 18th century on the issue of slavery in England,

and specifically the status of black people who were slaves in the American colonies or the West Indies and who were taken to England by their masters. The unpublished materials are mostly verbatim transcripts made by shorthand writers commissioned by Granville Sharp, one of the first Englishmen to take up the cause of the abolition of the slave trade and slavery itself. Other related unpublished material is also made available for the first time, including an opinion of an attorney general and some minor cases from the library of York Minster. On the slave ship Zong, there are transcripts of the original declaration, the deposition by the chief mate, James Kelsall and an extract from a manuscript that Professor Martin Dockray was working on before his untimely death. The second purpose, outlined in the Introduction, is to give a social and legal background to the cases and an analysis of the position in England of black servants/slaves brought to England and the legal effects of the cases, taking into account the new information provided by the transcripts. There was a conflict in legal authorities as to whether black servants remained slaves, or became free on arrival in England. Lord Mansfield, the chief justice of the court of King's Bench, was a central figure in all the cases and clearly struggled to come to terms with slavery. The material provides a basis for tracing the evolution of his thought on the subject. On the one hand, the huge profits from slave production in the West Indies flooded into England, slave owners had penetrated the leading institutions in England and the pro-slavery lobby was influential. On the other hand, English law had over time established rights and liberties which in the 18th century were seen by many as national characteristics. That tradition was bolstered by the ideas of the Enlightenment. By about the 1760s it had become clear that there was no property in the person, and by the 1770s that such servants could not be sent abroad without their consent, but whether they owed an obligation of perpetual service remained unresolved.

## Longitude and Empire

### How Captain Cook's Voyages Changed the World

*UBC Press* Before Captain Cook's three voyages, to Europeans the globe was uncertain and dangerous; after, it was comprehensible and ordered. Written as a conceptual field guide to the voyages, Longitude and Empire offers a significant rereading of both the expeditions and modern political philosophy. More than any other work, printed accounts of the voyages marked the shift from early modern to modern ways of looking at the world. The globe was no longer divided between Europeans and savages but populated instead by an almost overwhelming variety of national identities. Cook's voyages took the fragmented and obscure global descriptions available at the time and consolidated them into a single, comprehensive textual vision. Locations became fixed on the map and the people, animals, plants, and artifacts associated with them were identified, collected, understood, and assimilated into a world order. This fascinating account offers a new understanding of Captain Cook's voyages and how they affected the European world view.

## Greenwich Time and the Longitude: Official Millennium Edition

*Philip Wilson Publishers* The history of the Royal Observatory, Greenwich has been revised to coincide with the Millennium. Color illustrations and updated text tell the story of Greenwich from its foundations in 1676 to its present status as Longitude 0°, the world's Prime Meridian for measuring longitude and time. The book covers the importance of longitude for navigation and traces the history of Greenwich Time, the basis of universal time-keeping. The book is co-published with the National Maritime Museum, where Derek Howse was the former Head of Navigation and Astronomy.

## The Pirate Dictionary

*Pelican Publishing*

## Beware Invisible Cows

## My Search for the Soul of the Universe

*Simon and Schuster* What really happened at the moment of the Big Bang? And how the hell do we know? And why is finding out so important? And who are these people who design and build these experiments? And is it all worth it? Andy Martin sets out on a road trip to search for the soul of the universe. In his personal quest for the mother of all truths, he has to go all the way back to the origin of time and space. He climbs up to the highest observatory in the world and sticks his head inside a 4 km-long laser tube capable of surfing waves from the Big Bang. He sees himself the way he used to be in a mirror and he discovers where you go when you die. He has close encounters with aliens and intimations of immortality. This book has everything -- science, philosophy, literature, religion, Einstein, Weinstein, God, the Godfather, all seen through a glass darkly.

# 1,000 Books to Read Before You Die

## A Life-Changing List

*Workman Publishing Company* It's time to talk books—and the conversation starts here. Encompassing fiction, poetry, science and science fiction, memoir, travel writing, biography, children's books, history, and more, **1,000 Books to Read Before You Die** moves across cultures and through time to present an eclectic collection of titles, each described with the special enthusiasm readers summon when recommending a book to a friend. The expected pillars are here, including Jane Austen and Toni Morrison, Virgil, Dante, Dickens and Tolstoy, Franz Kafka and Simone de Beauvoir—their works made fresh through the author's animated essays. Established classics are joined by new and unexpected choices like *Citizen and Friday Night Lights*. A Visit from the Goon Squad and *The Pillow Book* of Sei Shōnagon, *The Day of the Jackal* and *The Man Who Mistook His Wife for a Hat*. The result is a treasury of essential reading for expansive tastes. The book's alphabetical listing by last name results in the serendipity of juxtaposition—Cormac McCarthy's *The Road* next to Robert McCloskey's *Make Way for Ducklings*, John le Carré next to Ursula K. Le Guin next to Harper Lee. Following each entry are rich endnotes that include publication dates and preferred editions, other books by the same author, related books to try, and listings of worthy adaptations, including movies and audiobooks. In total, more than six thousand titles by thirty-five hundred authors are recommended. A Miscellany of Special Lists at the end of the book offers the reader surprising entry points into the collection, such as "Books to Read in a Sitting," including *The Little Virtues* by Natalia Ginzburg and *The Third Man* by Graham Greene, and "Offbeat Escapes," including Freya Stark's *The Valleys of the Assassins* and Felice Benuzzi's *No Picnic on Mount Kenya*. For the truly dedicated reader, "A Long Climb, but What a View"—a perfect way to describe those mountainous texts we long to scale, such as Proust's *In Search of Lost Time* and Shelby Foote's *The Civil War*. An insightfully curated personal compendium that will inspire hours of browsing and a lifetime of reading, **1,000 Books to Read Before You Die** celebrates the gorgeous mosaic that is our literary heritage.

## Star Maps

### History, Artistry, and Cartography

*Springer Science & Business Media* Until the publication of the first edition of 'Star Maps,' books were either general histories of astronomy using examples of antiquarian celestial maps as illustrations, or catalogs of celestial atlases that failed to trace the flow of sky map development over time. The second edition focuses on the development of contemporary views of the heavens and advances in map-making. It captures the beauty and awe of the heavens through images from antiquarian celestial prints and star atlases. This book uniquely combines a number of features: 1) the history of celestial cartography is traced from ancient to modern times; 2) this development is integrated with contemporary cosmological systems; 3) the artistry of sky maps is shown using beautiful color images from actual celestial atlases and prints; 4) each illustration is accompanied by a legend explaining what is being shown; and 5) the text is written for the lay reader based on the author's experience with writing articles for amateur astronomy and map collector magazines. This updated second edition of 'Star Maps' contains over 50 new pages of text and 44 new images (16 in color), including completely new sections on celestial frontispieces, deep-sky objects, playing card maps, additional cartographers, and modern computerized star maps. There is also expanded material about celestial globes, volvelles, telescopes, and planets and asteroids.

## The Planets

*Penguin* Dava Sobel's *The Glass Universe* will be available from Viking in December 2016 With her bestsellers *Longitude* and *Galileo's Daughter*, Dava Sobel introduced readers to her rare gift for weaving complex scientific concepts into a compelling narrative. Now Sobel brings her full talents to bear on what is perhaps her most ambitious topic to date—the planets of our solar system. Sobel explores the origins and oddities of the planets through the lens of popular culture, from astrology, mythology, and science fiction to art, music, poetry, biography, and history. Written in her characteristically graceful prose, *The Planets* is a stunningly original celebration of our solar system and offers a distinctive view of our place in the universe. \* A New York Times extended bestseller \* A Featured Alternate of the Book-of-the-Month Club, History Book Club, Scientific American Book Club, and Natural Science Book Club \* Includes 11 full-color illustrations by artist Lynette R. Cook "[The Planets] lets us fall in love with the heavens all over again." -The New York Times Book Review "Playful . . . lyrical . . . a guided tour so imaginative that we forget we're being educated as we're being entertained." -Newsweek "[Sobel] has outdone her extraordinary talent for keeping readers enthralled. . . . *Longitude* and *Galileo's Daughter* were exciting enough, but *The Planets* has a charm of its own . . . . A splendid and enticing book." -San Francisco Chronicle "A sublime journey. [Sobel's] writing . . . is as bright as the sun and its thinking as star-studded as the cosmos." -The Atlanta Journal-Constitution "An incantatory serenade to the Solar System. Grade A-" -Entertainment Weekly "Like Sobel's [*Longitude* and *Galileo's Daughter*] . . . [*The Planets*] combines masterful storytelling with clear, engaging explanations of the essential scientific facts." -Physics World

## The Ebk Pillaging the Empire

### Piracy in The

*M.E. Sharpe* This introductory survey to maritime predation in the Americas from the age of Columbus to the reign of the Spanish king Philip V includes piracy, privateering (state-sponsored sea-robbery), and genuine warfare carried out by professional navies.

### Blood and Silver

## A History of Piracy in the Caribbean and Central America

*Signal Books* In this new and original study of piracy, Kris Lane looks at the often mixed motives behind the phenomenon and the lives of those involved. Rejecting the romantic myth of the Elizabethan swashbuckler, he reveals a world of violence, hardship and fanaticism, in which self-enrichment was an obsession. From the first corsairs of the 16th century to the last of the buccaneers, he traces the rise and fall of a dangerous profession which encompassed slave-running, smuggling and ship-wrecking.

### Sync

## The Emerging Science of Spontaneous Order

*Penguin UK* 'SYNC' IS A STORY OF A DAZZLING KIND OF ORDER IN THE UNIVERSE, THE HARMONY THAT COMES FROM CYCLES IN SYNC. THE TENDENCY TO SYNCHRONIZE IS ONE OF THE MOST FAR- REACHING DRIVES IN ALL OF NATURE. IT EXTENDS FROM PEOPLE TO PLANETS, FROM ANIMALS TO ATOMS. IN 'SYNC' PROFESSOR STEVEN STROGATZ CONSIDERS A RANGE OF APPLICATIONS - HUMAN SLEEP AND CIRCADIAN RHYTHMS, MENSTRUAL SYNCHRONY, INSECT OUTBREAKS, SUPERCONDUCTORS, LASERS, SECRET CODES, HEART ARRHYTHMIAS AND FADS - CONNECTING ALL THROUGH AN EXPLORATION OF THE SAME MATHEMATICAL THEME: SELF- ORGANISATION, OR THE SPONTANEOUS EMERGENCE OF ORDER OUT OF CHAOS. FOCUSED ENOUGH TO PRESENT A COHERENT WORLD UNTO THEMSELVES, STROGATZ'S CHOSEN TOPICS TOUCH ON SEVERAL OF THE HOTTEST DIRECTIONS IN CONTEMPORARY SCIENCE.

## Science and Technology in World History [2 volumes]

*ABC-CLIO* This encyclopedia offers an interdisciplinary approach to studying science and technology within the context of world history. With balanced coverage, a logical organization, and in-depth entries, readers of all inclinations will find useful and interesting information in its contents. Science and Technology in World History takes a truly global approach to the subjects of science and technology and spans the entirety of recorded human history. Topical articles and entries on the subjects are arranged under thematic categories, which are divided further into chronological periods. This format, along with the encyclopedia's integrative approach, offers an array of perspectives that collectively contribute to the understanding of numerous fields across the world, and over eras of development. Entries cover discussions of scientific and technological innovations and theories, historical vignettes, and important texts and individuals throughout the world. From the discovery of fire and the innovation of agricultural methods in China to the establishment of surgical practices in France and the invention of Quantum Theory, this encyclopedia offers comprehensive coverage of fascinating topics in science and technology through a straightforward, historical lens. Provides readers with a multicultural view of the evolution of science and technology from prehistory to the present Covers both scientific theory and practical technology Encourages readers to think about science and technology in historical terms Places current conditions within a broad historical framework

## Time for Science Education

## How Teaching the History and Philosophy of Pendulum Motion can Contribute to Science Literacy

*Springer Science & Business Media* The book's argument depends, as do most proposals in education, upon certain positions in the philosophy of education. I believe that education should be primarily concerned with developing understanding, with initiation into worth while traditions of intellectual achievement, and with developing capacities for clear, analytic and critical thought. These have been the long-accepted goals of liberal education. In a liberal education, students should come to know and appreciate a variety of disciplines, know them at an appropriate depth, see the interconnectedness of the disciplines, or the modes of thought, and finally have some critical disposition toward what is being learned, to be genuinely open minded about intellectual things. These liberal goals are

contrasted with goals such as professional training, job preparation, promotion of self-esteem, social engineering, entertainment, or countless other putative purposes of schooling that are enunciated by politicians, administrators, and educators. The book's argument might be consistent with other views of education especially ones about the training of specialists (sometimes called a professional view of education)-but the argument fits best with a liberal view of education. The liberal hope has always been that if education is done well, then other personal and social goods will follow. The development of informed, critical, and moral capacities is the cornerstone for personal and social achievements.

## Galileo's Daughter

### A Drama of Science, Faith and Love

*HarperCollins UK* This is an account of the relationship between Italian scientist Galileo and his daughter, Marie Celeste. It contains letters sent from Marie Celeste to her father from a Florence convent.

## Atlantic History

### A Critical Appraisal

*OUP USA* This title offers an incisive look at how interpretations of the Atlantic world have changed over time and from a variety of national perspectives. This volume discusses key areas of the Atlantic world, including the British, Dutch, French, Iberian, and African Atlantic, as well as the movement of ideas, peoples, and goods.

## The Empirical Empire

### Spanish Colonial Rule and the Politics of Knowledge

*Walter de Gruyter GmbH & Co KG* How was Spain able to govern its enormous colonial territories? In 1573 the king decreed that his councilors should acquire "complete knowledge" about the empire they were running from out of Madrid, and he initiated an impressive program for the systematic collection of empirical knowledge. Brendecke shows why this knowledge was created in the first place - but then hardly used. And he looks into the question of what political effects such a policy of knowledge had for Spain's colonial rule.

## The Seaforth Bibliography

### A Guide to More Than 4000 Works on British Naval History 55BC - 1815

*Pen and Sword* This remarkable work is a comprehensive historiographical and bibliographical survey of the most important scholarly and printed materials about the naval and maritime history of England and Great Britain from the earliest times to 1815. More than 4,000 popular, standard and official histories, important articles in journals and periodicals, anthologies, conference, symposium and seminar papers, guides, documents and doctoral theses are covered so that the emphasis is the broadest possible. But the work is far, far more than a listing. The works are all evaluated, assessed and analysed and then integrated into an historical narrative that makes the book a hugely useful reference work for student, scholar, and enthusiast alike. It is divided into twenty-one chapters which cover resource centres, significant naval writers, pre-eminent and general histories, the chronological periods from Julius Caesar through the Vikings, Tudors and Stuarts to Nelson and Bligh, major naval personalities, warships, piracy, strategy and tactics, exploration, discovery and navigation, archaeology and even naval fiction. Quite simply, no-one with an interest and enthusiasm for naval history can afford to be without this book at their side.

## Time and Eternity

*Hope Publishing House* Throughout the centuries, people from diverse cultures, circumstances and points of view have wrestled with the concept of time. In the 5th Century St. Augustine said, What is time? If no one asks me, I know; but if any person should require me to tell him, I cannot. Time magazine said as the last century closed, While scientists have harnessed the power of the atom, cracked the genetic code and probed the very edges of the universe, they still don't understand time much better than St. Augustine did. Here the author leads a thought-provoking discussion that begins in time, ends in eternity, and focuses continually on the Eternal One who is the source of both.

## One Size Fits Few

### The Folly of Educational Standards

*Heinemann Educational Books* **Susan Ohanian** recounts her quest to make sense of the Standards educational movement.

## Galileo's Daughter

### A Historical Memoir of Science, Faith, and Love

*Penguin Books* **The tender, inspiring relationship between Galileo and his daughter, a nun, is revealed through letters written between the two. Reprint.**