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**Sea Clocks**-Louise Borden 2008-09-01 John Harrison worked tirelessly for over 40 years to create a perfect clock, so that sailors could accurately work out their location at sea. Illustrated throughout, Borden's story highlights the drama, disappointments and successes that filled Harrison's quest to invent the perfect sea clock.

**Longitude**-Dava Sobel 2010-07-05 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.

**Ships, Clocks, and Stars**-Richard Dunn 2014-11-04 A tale of eighteenth-century invention and competition, commerce and conflict, this is a lively, illustrated, and accurate chronicle of the search to solve "the longitude problem," the question of how to determine a ship's position at sea—and one that changed the history of mankind. Ships, Clocks, and Stars brings into focus one of our greatest scientific stories: the search to accurately measure a ship's position at sea. The incredible, illustrated volume reveals why longitude mattered to seafaring nations, illuminates the various solutions that were proposed and tested, and explores the invention that revolutionized human history and the man behind it, John Harrison. Here, too, are the voyages of Captain Cook that put these revolutionary navigational methods to the test. Filled with astronomers, inventors, politicians, seamen, and satirists, Ships, Clocks, and Stars explores the scientific, political, and commercial battles of the age, as well as the sailors, ships, and voyages that made it legend—from Matthew Flinders and George Vancouver to the voyages of the Bounty and the Beagle. Featuring more than 150 photographs specially commissioned from Britain's National Maritime Museum, this evocative, detailed, and thoroughly fascinating history brings this age of exploration and enlightenment vividly to life.

**Windows on the World: International Books for Elementary and Middle Grade Readers**-Rosanne Blass 2009-12-14 This resource book for
When Information Came of Age - Daniel R. Headrick 2000-12-28 "The book provides a concise and readable survey of the many conceptual developments between 1700 and 1850 and draws connections to leading technologies of today. It documents three breakthroughs in information systems that date to the period: the classification and nomenclature of Linnaeus, the chemical system devised by Lavoisier, and the metric system. It shows how eighteenth-century political arithmeticians and demographers pioneered statistics and graphs as a means for presenting data succinctly and visually. It describes the transformation of cartography from art to science as it incorporated new methods for determining longitude at sea and new data on the measure of the arc of the meridian on land. Finally, it looks at the early steps in codifying and transmitting information, including the development of dictionaries, the invention of semaphore telegraphs and naval flag signaling, and the conceptual changes in the use and purpose of postal services."

Navigational Enterprises in Europe and its Empires, 1730-1850 - Rebekah Higgitt 2016-02-19 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.

The Sea and Its Story from Viking Ship to Submarine - Frank Hubert Shaw 1910

The Story of Computing - Dermot Turing 2018-05-11 'I do not see why it [the machine] should not enter any one of the fields normally covered by the human intellect, and eventually compete on equal terms.' Alan Turing, 1949 Today computers shape every aspect of our lives. In our pockets, we carry mobile phones with computing power that was unimaginable just 50 years ago. Every workplace has its array of desktops, servers, and laptops, and a selection of specially designed software. Many industries are embracing the promises - and the risks - of artificial intelligence. The world is changing faster than ever, and computing is at the heart of technological development. While computers themselves are modern phenomena, for centuries people have been attempting to solve complex problems, often with the aid of machines. The first computers were not machines at all, but people armed with mathematical tables and infinite patience. They were replaced by heavy, cumbersome machines that sprawled over multiple rooms. Over the course of half a century, they were transformed from an obscure tool for scientists into the quintessential consumer product. The Story of Computing takes you on an incredible journey through the ideas, the discoveries, and the personalities that shaped the modern technology on which we have come to rely. Topics include: • the birth of the computer • codebreaking in World War II • innovations in hardware and software • artificial intelligence • the internet • the challenges of cybersecurity.

Arctic Explorers - Frances Hern 2011-02-01 There is no saga in Canadian history as full of hardship, catastrophe and mystery as the search for the Northwest Passage. Since the 15th century, the ice-choked Arctic waterway has been sought and travelled by daring men seeking profit, glory or a chance to test themselves against the merciless North. Frances Hern takes
us aboard ships with the explorers whose names are memorialized on modern maps of northern Canada: Martin Frobisher, daring privateer in the service of Elizabeth I; Henry Hudson, a navigator who may have driven his crew to mutiny; John Franklin, whose last voyage became an enduring northern mystery; the talented Orkneyman John Rae, a surgeon and surveyor on the trail of Franklin. Also vividly recounted are the gruelling overland treks of Samuel Hearne; the heroic exploits of Roald Amundsen, leader of the first expedition to traverse the passage; and the incredible voyages of Henry Larsen, captain of the RCMP vessel St. Roch.

The War at Sea, 1939-1945: The defensive - Stephen Wentworth Roskill 1961

Marine Chronometers at Greenwich - Jonathan Betts 2018-01-04 The Marine Chronometers at Greenwich is the fifth, and largest, of the distinguished series of catalogues of instruments in the collections of the National Maritime Museum. Housed at the Royal Observatory Greenwich -- the 'home of time' and the Prime Meridian of the world -- this extraordinary collection, which includes the celebrated marine timekeepers by John Harrison (1693-1776), is generally considered to be the finest of its kind in existence. The book is however much more than just a catalogue, and includes an accessible and engaging history of the chronometer, revealing why these instruments were important in our scientific and cultural history, and explaining, in simple terms, how they worked and were used. A comprehensive Glossary and Bibliography are included to ensure any technicalities are explained and that the reader has suggestions for useful 'further reading'. Over 480 photographs and illustrations, including many fine macro-photographs and line drawings, illustrate the 'jewel-like' beauty of the chronometer's construction and explain the function and subtleties of its mechanism. A chapter on 'How the Chronometer was Made', describes the fine sub-division of labour used to create these special machines, from bare metal, right up to delivery on board ship, and brief biographies of the makers tell the human story behind this important nineteenth-century industry. Another chapter, 'The Evolution of the Chronometer', aimed at collectors, historians and curators, provides clearly structured information on assessing and dating the chronometer, something many find difficult. And, for the dedicated specialist, there is extensive tabulated data on the technical structure of this important collection, a unique resource for future research.

Voyages in World History - Valerie Hansen 2016-01-01 The authors of VOYAGES IN WORLD HISTORY never forget that history is made up of the stories of people. Each chapter of the text centers on a story -- a traveler's account that highlights the book’s main theme, the constant movement of people, goods, and ideas. The travelers include merchants, poets, rulers, explorers, soldiers, missionaries, and scholars, and their voyages provide a framework for each chapter that will capture students’ interest and draw them into the stories of the people, places, and events crucial to understanding world history. Special features highlight connections across chapters, societies, and periods, helping students understand historical events in a global context. Available in the following split options: VOYAGES IN WORLD HISTORY, Third Edition Complete, Volume 1: To 1600, and Volume 2: Since 1500. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

God’s Future for Animals - Raymond R. Hausoul 2021-08-16 God loves animals and gives them a special place in creation. So, do animals also have a place in God’s work of redemption? Will there be animals on the new Earth? Will we see our beloved pets in the afterlife? This book takes up the challenge to think in a responsible way through these questions. The author focuses in particular on the physical restoration, the prophetic proclamation of the coming animal peace, the attitude of God and humanity towards animals, and the question of the relationship between biblical life, the future of animals, and vegetarianism. What can the Bible and Christian doctrine reveal to us about God’s way with animals?

Wheels, Clocks, and Rockets: A History of Technology (The Norton History of Science) - Donald Cardwell 2001-05-17 "A prime example of how to write a history of an immense and technical subject ....a winner."—New
Scientist As technology transforms our lives at an ever quickening rate, Donald Cardwell reminds us that technological innovation is not created in a vacuum—rather, it is the product of the successful interaction between social change, scientific developments, and political vision. In this wide-ranging, "spirited" (Booklist) survey of the machines and tools that humans have developed throughout history, Cardwell not only explains the mechanical technicalities but also delves into the underlying trends that have culminated in eras of great change. In particular, he highlights the eighteenth century as a watershed in the modern history of technology, analyzing how scientific developments in physics and chemistry spurred the mechanical innovations of the Industrial Revolution. From the steam engine to electrical power to nuclear energy to today's world of electronics and computers, this book opens a discussion of how science and technology together change our lives. Originally published as The Norton History of Technology.


Sound Unbound-Paul D. Miller 2008-03-14 The role of sound and digital media in an information-based society: artists—from Steve Reich and Pierre Boulez to Chuck D and Moby—describe their work. If Rhythm Science was about the flow of things, Sound Unbound is about the remix—how music, art, and literature have blurred the lines between what an artist can do and what a composer can create. In Sound Unbound, Rhythm Science author Paul Miller aka DJ Spooky that Subliminal Kid asks artists to describe their work and compositional strategies in their own words. These are reports from the front lines on the role of sound and digital media in an information-based society. The topics are as diverse as the contributors: composer Steve Reich offers a memoir of his life with technology, from tape loops to video opera; Miller himself considers sampling and civilization; novelist Jonathan Lethem writes about appropriation and plagiarism; science fiction writer Bruce Sterling looks at dead media; Ron Eglash examines racial signifiers in electrical engineering; media activist Naeem Mohaiemen explores the influence of Islam on hip hop; rapper Chuck D contributes “Three Pieces”; musician Brian Eno explores the sound and history of bells; Hans Ulrich Obrist and Philippe Parreno interview composer-conductor Pierre Boulez; and much more. “Press ‘play,’” Miller writes, “and this anthology says ‘here goes.’” The groundbreaking music that accompanies the book features Nam Jun Paik, the Dada Movement, John Cage, Sonic Youth, and many other examples of avant-garde music. Most of this content comes from the archives of Sub Rosa, a legendary record label that has been the benchmark for archival sounds since the beginnings of electronic music. To receive these free music files, readers may send an email to the address listed in the book. Contributors David Allenby, Pierre Boulez, Catherine Corman, Chuck D, Erik Davis, Scott De Lahunta, Manuel DeLanda, Cory Doctorow, Eveline Domnitch, Frances Dyson, Ron Eglash, Brian Eno, Dmitry Gelfand, Dick Hebdige, Lee Hirsch, Vijay Iyer, Ken Jordan, Douglas Kahn, Daphne Keller, Beryl Korot, Jaron Lanier, Joseph Lanza, Jonathan Lethem, Carlo McCormick, Paul D. Miller aka DJ Spooky that Subliminal Kid, Moby, Naeem Mohaiemen, Alondra Nelson, Keith and Mendi Obadike, Hans Ulrich Obrist, Pauline Oliveros, Philippe Parren, Ibrahim Quaraishi, Steve Reich, Simon
Voyages in World History, Volume 2 - Valerie Hansen 2016-01-01 The authors of VOYAGES IN WORLD HISTORY never forget that history is made up of the stories of people. Each chapter of the text centers on a story -- a traveler’s account that highlights the book’s main theme, the constant movement of people, goods, and ideas. The travelers include merchants, poets, rulers, explorers, soldiers, missionaries, and scholars, and their voyages provide a framework for each chapter that will capture students’ interest and draw them into the stories of the people, places, and events crucial to understanding world history. Special features highlight connections across chapters, societies, and periods, helping students understand historical events in a global context. Available in the following split options: VOYAGES IN WORLD HISTORY, Third Edition Complete, Volume 1: To 1600, and Volume 2: Since 1500. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Integrating Literature in the Disciplines - Sharon Kane 2020-04-30 The Second Edition of this practical and comprehensive resource offers a multitude of ways to incorporate literature into teaching and learning across a range of disciplines. Future and practicing teachers, librarians, instructional coaches, and school leaders can implement the ideas within this text to improve the literacy skills and knowledge of students, while also addressing standards and curricular goals of various content areas. The new edition recognizes a paradigm shift from content areas to disciplines, reflecting the specific ways reading and writing are used in different fields of study. Updated with current research and practices, the volume recommends and evaluates books in different genres and categories, with chapters on informational books; fiction; biography and memoir; poetry; and hands-on and how-to books. For every category, Kane provides a rationale, instructional strategies, and author studies, as well as lists and descriptions of books related to curricular areas. With a wealth of activities and new BookTalks, this Second Edition is greatly revised and features expanded attention to technology, digital learning, diversity, and culture. Using this text will create opportunities for deep discussions and will stimulate students’ interest and motivation to read and learn. Integrating Literature in the Disciplines helps educators identify books that fit with any subject to enhance the creative and affective dimensions of school life; encourages interdisciplinary connections; and increases the depth and relevance of lessons. It is ideal for professional development and serves as a tool for Readers’ Advisory to match books with readers throughout the school day and beyond.

Curiosities of Clocks and Watches - Edward J. Wood 1866

The Clock Of The Long Now - Stewart Brand 2008-08-01 Using the designing and building of the Clock of the Long Now as a framework, this is a book about the practical use of long time perspective: how to get it, how to use it, how to keep it in and out of sight. Here are the central questions it inspires: How do we make long-term thinking automatic and common instead of difficult and rare? Discipline in thought allows freedom. One needs the space and reliability to predict continuity to have the confidence not to be afraid of revolutions Taking the time to think of the future is more essential now than ever, as culture accelerates beyond its ability to be measured Probable things are vastly outnumbered by countless near-impossible eventualities. Reality is statistically forced to be extraordinary; fiction is not allowed this freedom This is a potent book that combines the chronicling of fantastic technology with equally visionary philosophical inquiry.

Indoor Positioning - Nel Samama 2019-06-21 Provides technical and scientific descriptions of potential approaches used to achieve indoor positioning, ranging from sensor networks to more advanced radio-based systems This book presents a large technical overview of various approaches to achieve indoor positioning. These approaches cover those based on sensors, cameras, satellites, and other radio-based methods. The book also discusses the simplification of certain implementations,
describing ways for the reader to design solutions that respect specifications and follow established techniques. Descriptions of the main techniques used for positioning, including angle measurement, distance measurements, Doppler measurements, and inertial measurements are also given. Indoor Positioning: Technologies and Performance starts with overviews of the first age of navigation, the link between time and space, the radio age, the first terrestrial positioning systems, and the era of artificial satellites. It then introduces readers to the subject of indoor positioning, as well as positioning techniques and their associated difficulties. Proximity technologies like bar codes, image recognition, Near Field Communication (NFC), and QR codes are covered—as are room restricted and building range technologies. The book examines wide area indoor positioning as well as world wide indoor technologies like High-Sensitivity and Assisted GNSS, and covers maps and mapping. It closes with the author's vision of the future in which the practice of indoor positioning is perfected across all technologies. This text: Explores aspects of indoor positioning from both theoretical and practical points of view Describes advantages and drawbacks of various approaches to positioning Provides examples of design solutions that respect specifications of tested techniques Covers infra-red sensors, lasers, Lidar, RFID, UWB, Bluetooth, Image SLAM, LiFi, WiFi, indoor GNSS, and more Indoor Positioning is an ideal guide for technical engineers, industrial and application developers, and students studying wireless communications and signal processing.

The War at Sea, 1939-1945: The defensive.- v.2. The period of balance.- v.3. The offensive-Stephen Wentworth Roskill 1954

Chatterbox- 1901

Vistas in Astronomy-P. Beer 2016-06-06 Vistas in Astronomy

Interpreting Maritime History at Museums and Historic Sites-Joel Stone 2017-03-28 Interpreting Maritime History at Museums and Historic Sites lays the groundwork for keeping this heritage alive in museums and historic sites. It provides the broadest spectrum of discussion and direction for those approaching new installations, projects and programming. Highlights of its wide-range include: •Historic vessels and shipbuilding •Freshwater maritime history, including a focus on regionalism •Maritime archaeology, including shipwrecks •Scientific history, including the environment •Recreational history, including rowing, fishing, racing, and cruising •Lighthouses and lifesaving stations

Science-fiction, the Early Years-Everett Franklin Bleiler 1990 Contains author, title, and publishing information, and plot summaries

The Sea Captain's Wife: A True Story of Love, Race, and War in the Nineteenth Century-Martha Hodes 2011-02-07 A finalist for the Lincoln Prize, The Sea Captain's Wife "comes surprisingly, and movingly, alive" (Tina Jordan, Entertainment Weekly). Award-winning historian Martha Hodes brings us into the extraordinary world of Eunice Connolly. Born white and poor in New England, Eunice moved from countryside to factory city, worked in the mills, then followed her husband to the Deep South. When the Civil War came, Eunice's brothers joined the Union army while her husband fought and died for the Confederacy. Back in New England, a widow and the mother of two, Eunice barely got by as a washerwoman, struggling with crushing depression. Four years later, she fell in love with a black sea captain, married him, and moved to his home in the West Indies. Following every lead in a collection of 500 family letters, Hodes traced Eunice's footsteps and met descendants along the way. This story of misfortune and defiance takes up grand themes of American history—opportunity and racism, war and freedom—and illuminates the lives of ordinary people in the past. A Library Journal Best Book of the Year and a selection of the Book of the Month Club, Literary Guild, and Quality Paperback Book Club.

Mathematics at the Meridian-Raymond Flood 2019-11-11 Greenwich has been a centre for scientific computing since the foundation of the Royal
Observatory in 1675. Early Astronomers Royal gathered astronomical data with the purpose of enabling navigators to compute their longitude at sea. Nevil Maskelyne in the 18th century organised the work of computing tables for the Nautical Almanac, anticipating later methods used in safety-critical computing systems. The 19th century saw influential critiques of Charles Babbage’s mechanical calculating engines, and in the 20th century Leslie Comrie and others pioneered the automation of computation. The arrival of the Royal Naval College in 1873 and the University of Greenwich in 1999 has brought more mathematicians and different kinds of mathematics to Greenwich. In the 21st century computational mathematics has found many new applications. This book presents an account of the mathematicians who worked at Greenwich and their achievements. Features A scholarly but accessible history of mathematics at Greenwich, from the seventeenth century to the present day, with each chapter written by an expert in the field. The book will appeal to astronomical and naval historians as well as historians of mathematics and scientific computing.

**The Leader's Guide to Storytelling:** Stephen Denning 2011-01-21 How leaders can use the right story at the right time to inspire change and action. This revised and updated edition of the best-selling book A Leader's Guide to Storytelling shows how storytelling is one of the few ways to handle the most important and difficult challenges of leadership: sparking action, getting people to work together, and leading people into the future. Using myriad illustrative examples and filled with how-to techniques, this book clearly explains how you can learn to tell the right story at the right time. Stephen Denning has won awards from Financial Times, The Innovation Book Club, and 800-CEO-READ. The book on leadership storytelling shows how successful leaders use stories to get their ideas across and spark enduring enthusiasm for change. Stephen Denning offers a hands-on guide to unleash the power of the business narrative.

**Time and Navigation:** Andrew K. Johnston 2015-06-02 If you want to know where you are, you need a good clock. The surprising connection between time and place is explored in Time and Navigation: The Untold Story of Getting from Here to There, the companion book to the National Air and Space Museum exhibition of the same name. Today we use smartphones and GPS, but navigating has not always been so easy. The oldest "clock" is Earth itself, and the oldest means of keeping time came from observing changes in the sky. Early mariners like the Vikings accomplished amazing feats of navigation without using clocks at all. Pioneering seafarers in the Age of Exploration used dead reckoning and celestial navigation; later innovations such as sextants and marine chronometers honed these techniques by measuring latitude and longitude. When explorers turned their sights to the skies, they built on what had been learned at sea. For example, Charles Lindbergh used a bubble sextant on his record-breaking flights. World War II led to the development of new flight technologies, notably radio navigation, since celestial navigation was not suited for all-weather military operations. These forms of navigation were extended and enhanced when explorers began guiding spacecraft into space and across the solar system. Astronauts combined celestial navigation technology with radio transmissions. The development of the atomic clock revolutionized space flight because it could measure billionths of a second, thereby allowing mission teams to navigate more accurately. Scientists and engineers applied these technologies to navigation on earth to develop space-based time and navigation services such as GPS that is used every day by people from all walks of life. While the history of navigation is one of constant change and innovation, it is also one of remarkable continuity. Time and Navigation tells the story of navigation to help us understand where we have been and how we got there so that we can understand where we are going.

**The New-Brunswick Religious and Literary Journal:** 1829

**Carpentaria:** Alexis Wright 2015-04-27 IN the sparsely populated northern Queensland town of Desperance, battle lines have been drawn in the disputes among the powerful Phantom family of the Westend Pricklebush, Joseph Midnight’s renegade Eastend mob, and the white officials of neighboring towns. Trapped between politics and principle, past and present, the indigenous tribes fight to protect their natural resources, sacred sites, and, above all, their people. Steeped in myth and magical realism, Wright’s hypnotic storytelling exposes the heartbreaking realities of Aboriginal life. Carpentaria teems with extraordinary, larger-than-life
characters who transcend their circumstances and challenge assumptions about the downtrodden "other." The novel "bursts with life" (Daily Telegraph) as Alexis Wright re-creates the land and its people with mysticism, stark reality, and pointed imagination.

Curriculum Connections for Tree House Travelers for Grades K-4-Jane Berner 2007-10-01 Provides curriculum ideas, reproducible activities, and annotations for Web sites and books that follow the first four books in the Magic Tree House series.

The Perfect Storm: A True Story of Men Against the Sea-Sebastian Junger 1997-05-17 "There is nothing imaginary about Junger's book; it is all terrifyingly, awesomely real." —Los Angeles Times It was the storm of the century, boasting waves over one hundred feet high—a tempest created by so rare a combination of factors that meteorologists deemed it "the perfect storm." In a book that has become a classic, Sebastian Junger explores the history of the fishing industry, the science of storms, and the candid accounts of the people whose lives the storm touched. The Perfect Storm is a real-life thriller that makes us feel like we've been caught, helpless, in the grip of a force of nature beyond our understanding or control. Winner of the American Library Association's 1998 Alex Award.

Cosmic Dawn-George Rhee 2013-08-13 This book takes the reader on an exploration of the structure and evolution of our universe. The basis for our knowledge is the Big Bang theory of the expanding universe. This book then tells the story of our search for the first stars and galaxies using current and planned telescopes. These telescopes are marvels of technology far removed from Galileo's first telescope but continuing astronomy in his ground breaking spirit. We show the reader how these first stars and galaxies shaped the universe we see today. This story is one of the great scientific adventures of all time.

Open Strategy-Christian Stadler 2021-10-12 How smart companies are opening up strategic initiatives to involve front-line employees, experts, suppliers, customers, entrepreneurs, and even competitors. Why are some of the world's most successful companies able to stay ahead of disruption, adopting and implementing innovative strategies, while others struggle? It's not because they hire a new CEO or expensive consultants but rather because these pioneering companies have adopted a new way of strategizing. Instead of keeping strategic deliberations within the C-Suite, they open up strategic initiatives to a diverse group of stakeholders—front-line employees, experts, suppliers, customers, entrepreneurs, and even competitors. Open Strategy presents a new philosophy, key tools, step-by-step advice, and fascinating case studies—from companies that range from Barclays to Adidas—to guide business leaders in this groundbreaking approach to strategy. The authors—business-strategy experts from both academia and management consulting—introduce tools for each of the three stages of strategy-making: idea generation, plan formulation, and implementation. These are digital tools (including strategy contests), which allow the widest participation; hybrid digital/in-person tools (including a “nightmare competitor challenge”); a workshop tool that gamifies the business model development process; and tools that help companies implement and sustain open strategy efforts. Open strategy has an astonishing track record: a survey of 200 business leaders shows that although open-strategy techniques were deployed for only 30 percent of their initiatives, those same initiatives generated 50 percent of their revenues and profits. This book offers a roadmap for this kind of success.

Literature 1997-Astronomisches Rechen-InstitutARI 2013-11-11 Astronomy and Astrophysics Abstracts is devoted to the recording, summarizing and indexing of astronomical publications throughout the world. Two volumes are scheduled to appear per year. Volume 67 records 10,903 papers covering besides the classical fields of astronomy and astrophysics such matters as space flights related to astronomy, lunar and planetary probes and satellites, meteorites and interplanetary matter, X rays and cosmic rays, quasars and pulsars. The abstracts are classified under more than one hundred subject categories thus permitting quick surveying of the bulk of material published on the same topic within six months. For instance, this volume records 119 papers on minor planets, 155 papers on supernovae, and 554 papers on cosmology.
Chasing the Sun - Richard Cohen 2011-08-04 The Sun is so powerful, so much bigger than us, that it is a terrifying subject. Yet though we depend on it, we take it for granted. Amazingly the first book of its kind, CHASING THE SUN is a cultural and scientific history of our relationship with the star that gives us life. Richard Cohen, applying the same mix of wide-ranging reference and intimate detail that won outstanding reviews for By the Sword, travels from the ancient Greek astronomers to modern-day solar scientists, from Stonehenge to Antarctica (site of the solar eclipse of 2003, when penguins were said to sing), Mexico's Aztecs to the Norwegian city of Tromso, where for two months of the year there is no Sun at all. He introduces us to the crucial 'sunspot cycle' in modern economics, the religious dances of Indian tribesmen, the histories of sundials and calendars, the plight of migrating birds, the latest theories of global warming, and Galileo recording his discoveries in code, for fear of persecution. And throughout, there is the rich Sun literature -- from the writings of Homer through Dante and Nietzsche to Keats, Shelley and beyond. Blindingly impressive and hugely readable, this is a tour de force of narrative non-fiction.

Language Arts - Pamela J. Farris 2019-01-08 From the first edition to the latest, Language Arts: Process, Product and Assessment for Diverse Classrooms has presented sound language arts theory and methodology in a nonthreatening, straightforward manner at a reasonable price. Coverage focuses on the 2017 Standards for Literacy Professionals. Each chapter identifies and addresses the standards applicable to that chapter's topics. Farris and Werderich infuse their foundational guidelines with the latest research, teaching practices, and assessment and evaluation techniques. Ideas for lesson plans, use of technological applications, internet resources, and comprehensive, up-to-date listings of children’s, young adult, and multicultural fiction and nonfiction titles are among the text’s outstanding features. Other features geared expressly for pre- and inservice teachers include: • Engaging, real-life classroom anecdotes • Instructional activities for reading, writing, listening, speaking, viewing, and visually representing • Boxes containing teaching hints and mini lessons • Section on Response to Intervention (RtI) with the various tiers of intervention • Theories, instruction, and teaching activities for English language learners (ELLs) • Guidelines to meet the needs of special needs learners • Suggestions for literacy-based interdisciplinary instruction (including STEM and STEAM) • Examples of children’s work to help readers understand what to expect from different ages and ability levels • Questions and assignments to strengthen readers’ aptitude, awareness, and application of topics to real life.

Of Clocks and Time - Lutz Hüwel 2018-05-03 Of Clocks and Time takes readers on a five-stop journey through the physics and technology (and occasional bits of applications and history) of timekeeping. On the way, conceptual vistas and qualitative images abound, but since mathematics is spoken everywhere the book visits equations, quantitative relations, and rigorous definitions are offered as well. The expedition begins with a discussion of the rhythms produced by the daily and annual motion of sun, moon, planets, and stars. Centuries worth of observation and thinking culminate in Newton’s penetrating theoretical insights since his notion of space and time are still influential today. During the following two legs of the trip, tools are being examined that allow us to measure hours and minutes and then, with ever growing precision, the tiniest fractions of a second. When the pace of travel approaches the ultimate speed limit, the speed of light, time and space exhibit strange and counter-intuitive traits. On this fourth stage of the journey, Einstein is the local tour guide whose special and general theories of relativity explain the behavior of clocks under these circumstances. Finally, the last part of the voyage reverses direction, moving ever deeper into the past to explore how we can tell the age of "things" - including that of the universe itself.