

Access Free Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Problem Of His Time

# Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Problem Of His Time

Longitude Measure of the Earth The Illustrated Longitude The Glass Universe Just Mercy (Movie Tie-In Edition, Adapted for Young Adults) Observations and Predictions of Eclipse Times by Early Astronomers Latitude, Longitude, and Direction Backache Geography of Claudius Ptolemy The Illustrated Longitude Sextant Crystal Line Moby-Duck Maskelyne The Perfect Storm Pirate Latitudes The Longitude Prize The Orchid Thief Latitude & Longitude: Geography 2nd Grade for Kids | Children's Earth Sciences Books Edition The Planets A More Perfect Heaven The Chip Galileo's Daughter A Short History of Nearly Everything Longitude Ships, Clocks, and Stars Latitudes of Longing The Man Who Made Time Travel The Nature of Information Technology Managerial Work Time and Navigation Longitude Finding Longitude Longitude and Latitude, with Attitude Mason Dixon The Map That Changed the World Euclid's Window Longitude Sea Clocks Prisoner B-3087360 Degrees Longitude

## Longitude

## Access Free Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Problem Of His Time

New from #1 New York Times bestselling author Dava Sobel, the "inspiring" (People), little-known true story of women's landmark contributions to astronomy "A joy to read." —The Wall Street Journal Named one of the best books of the year by NPR, The Economist, Smithsonian, Nature, and NPR's Science Friday Nominated for the PEN/E.O. Wilson Literary Science Writing Award In the mid-nineteenth century, the Harvard College Observatory began employing women as calculators, or "human computers," to interpret the observations their male counterparts made via telescope each night. At the outset this group included the wives, sisters, and daughters of the resident astronomers, but soon the female corps included graduates of the new women's colleges—Vassar, Wellesley, and Smith. As photography transformed the practice of astronomy, the ladies turned from computation to studying the stars captured nightly on glass photographic plates. The "glass universe" of half a million plates that Harvard amassed over the ensuing decades—through the generous support of Mrs. Anna Palmer Draper, the widow of a pioneer in stellar photography—enabled the women to make extraordinary discoveries that attracted worldwide acclaim. They helped discern what stars were made of, divided the stars into meaningful categories for further research, and found a way to measure distances across space by starlight. Their ranks included Williamina Fleming, a Scottish woman originally hired as a maid who went on to identify ten novae and more than three hundred variable stars; Annie Jump Cannon, who designed a stellar classification system that was adopted by astronomers the world over and is still in use; and Dr. Cecilia Helena Payne, who

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in 1956 became the first ever woman professor of astronomy at Harvard—and Harvard’s first female department chair. Elegantly written and enriched by excerpts from letters, diaries, and memoirs, *The Glass Universe* is the hidden history of the women whose contributions to the burgeoning field of astronomy forever changed our understanding of the stars and our place in the universe.

### **Measure of the Earth**

Argues that exercise is the best therapy for backache, discusses motivation, recommends specific exercises, and covers yoga, meditation, and life-style changes

### **The Illustrated Longitude**

NEW YORK TIMES BESTSELLER • A NEW YORK TIMES NOTABLE BOOK A modern classic of personal journalism, *The Orchid Thief* is Susan Orlean’s wickedly funny, elegant, and captivating tale of an amazing obsession. Determined to clone an endangered flower—the rare ghost orchid *Polyrrhiza lindenii*—a deeply eccentric and oddly attractive man named John Laroche leads Orlean on an unforgettable tour of America’s strange flower-selling subculture, through Florida’s swamps and beyond, along with the Seminoles who help him and the forces of justice who fight

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him. In the end, Orlean—and the reader—will have more respect for underdog determination and a powerful new definition of passion. In this new edition, coming fifteen years after its initial publication and twenty years after she first met the “orchid thief,” Orlean revisits this unforgettable world, and the route by which it was brought to the screen in the film *Adaptation*, in a new retrospective essay. Look for special features inside. Join the Random House Reader’s Circle for author chats and more. Praise for *The Orchid Thief* “Stylishly written, whimsical yet sophisticated, quirkily detailed and full of empathy . . . The Orchid Thief shows [Orlean’s] gifts in full bloom.”—The New York Times Book Review “Fascinating . . . an engrossing journey [full] of theft, hatred, greed, jealousy, madness, and backstabbing.”—Los Angeles Times “Orlean’s snapshot-vivid, pitch-perfect prose . . . is fast becoming one of our national treasures.”—The Washington Post Book World “Orlean’s gifts [are] her ear for the self-skewing dialogue, her eye for the incongruous, convincing detail, and her Didion-like deftness in description.”—Boston Sunday Globe “A swashbuckling piece of reporting that celebrates some virtues that made America great.”—The Wall Street Journal From the Trade Paperback edition.

### **The Glass Universe**

The dramatic human story of an epic scientific quest: the search for the solution of how to calculate longitude and the unlikely triumph of an English genius. With a

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Foreword by Neil Armstrong.

### **Just Mercy (Movie Tie-In Edition, Adapted for Young Adults)**

Exploring the surprising connection between time and place, a companion book to the National Air and Space Museum exhibition of the same name traces the history of navigation, showing where we have been, how far we have come and where we are going.

### **Observations and Predictions of Eclipse Times by Early Astronomers**

In the tradition of Dava Sobel's *Longitude* comes sailing expert David Barrie's compelling and dramatic tale of invention and discovery—an eloquent elegy to one of the most important navigational instruments ever created, and the daring mariners who used it to explore, conquer, and map the world. Since its invention in 1759, a mariner's most prized possession has been the sextant. A navigation tool that measures the angle between a celestial object and the horizon, the sextant allowed sailors to pinpoint their exact location at sea. David Barrie chronicles the sextant's development and shows how it not only saved the lives of navigators in wild and dangerous seas, but played a pivotal role in their ability to map the globe.

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He synthesizes centuries of seafaring history and the daring sailors who have become legend, including James Cook, Matthew Flinders, Robert Fitz-Roy, Frank Worsley of the *Endurance*, and Joshua Slocum, the redoubtable old "lunarian" and first single-handed-round-the-world yachtsman. He also recounts his own maiden voyage, and insights gleaned from his experiences as a practiced seaman and navigator. Full of heroism, danger, and excitement, told with an infectious sense of wonder, *Sextant* offers a new look at a masterful achievement that changed the course of history.

### **Latitude, Longitude, and Direction**

Eclipses have long been seen as important celestial phenomena, whether as omens affecting the future of kingdoms, or as useful astronomical events to help in deriving essential parameters for theories of the motion of the moon and sun. This is the first book to collect together all presently known records of timed eclipse observations and predictions from antiquity to the time of the invention of the telescope. In addition to cataloguing and assessing the accuracy of the various records, which come from regions as diverse as Ancient Mesopotamia, China, and Europe, the sources in which they are found are described in detail. Related questions such as what type of clocks were used to time the observations, how the eclipse predictions were made, and how these prediction schemes were derived from the available observations are also considered. The results of this

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investigation have important consequences for how we understand the relationship between observation and theory in early science and the role of astronomy in early cultures, and will be of interest to historians of science, astronomers, and ancient and medieval historians.

### **Backache**

Contains an exclusive preview of *Micro* by Michael Crichton and Richard Preston. In Port Royal, a cutthroat town of taverns, grog shops and bawdy houses, life can end swiftly. But for Captain Edward Hunter, this is a life destined for riches; Spanish gold is there for the taking. And law in the New World is made by those who take it into their own hands.

### **Geography of Claudius Ptolemy**

One of the world's most beloved and bestselling writers takes his ultimate journey -- into the most intriguing and intractable questions that science seeks to answer. In *A Walk in the Woods*, Bill Bryson trekked the Appalachian Trail -- well, most of it. In *In A Sunburned Country*, he confronted some of the most lethal wildlife Australia has to offer. Now, in his biggest book, he confronts his greatest challenge: to understand -- and, if possible, answer -- the oldest, biggest questions we have

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posed about the universe and ourselves. Taking as territory everything from the Big Bang to the rise of civilization, Bryson seeks to understand how we got from there being nothing at all to there being us. To that end, he has attached himself to a host of the world's most advanced (and often obsessed) archaeologists, anthropologists, and mathematicians, travelling to their offices, laboratories, and field camps. He has read (or tried to read) their books, pestered them with questions, apprenticed himself to their powerful minds. *A Short History of Nearly Everything* is the record of this quest, and it is a sometimes profound, sometimes funny, and always supremely clear and entertaining adventure in the realms of human knowledge, as only Bill Bryson can render it. Science has never been more involving or entertaining. From the Hardcover edition.

## **The Illustrated Longitude**

Through *Euclid's Window* Leonard Mlodinow brilliantly and delightfully leads us on a journey through five revolutions in geometry, from the Greek concept of parallel lines to the latest notions of hyperspace. Here is an altogether new, refreshing, alternative history of math revealing how simple questions anyone might ask about space -- in the living room or in some other galaxy -- have been the hidden engine of the highest achievements in science and technology. Based on Mlodinow's extensive historical research; his studies alongside colleagues such as Richard Feynman and Kip Thorne; and interviews with leading physicists and

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mathematicians such as Murray Gell-Mann, Edward Witten, and Brian Greene, Euclid's Window is an extraordinary blend of rigorous, authoritative investigation and accessible, good-humored storytelling that makes a stunningly original argument asserting the primacy of geometry. For those who have looked through Euclid's Window, no space, no thing, and no time will ever be quite the same.

### **Sextant**

Geography of Claudius Ptolemy, originally titled Geographia and written in the second century, is a depiction of the geography of the Roman Empire at the time. Though inaccurate due to Ptolemy's varying methods of measurement and use of outdated data, Geography of Claudius Ptolemy is nonetheless an excellent example of ancient geographical study and scientific method. This edition contains more than 40 maps and illustrations, reproduced based on Ptolemy's original manuscript. It remains a fascinating read for students of scientific history and Greek influence. CLAUDIUS PTOLEMY (A.D. 90- A.D. 168) was a poet, mathematician, astronomer, astrologer, and geographer who wrote in Greek, though he was a Roman citizen. He is most well-known for three scientific treatises he wrote on astronomy, astrology, and geography, respectively titled Almagest, Apotelesmatika, and Geographia. His work influenced early Islamic and European studies, which in turn influenced much of the modern world. Ptolemy died in Alexandria as a member of Greek society.

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### **Crystal Line**

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

### **Moby-Duck**

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Learn to read maps, and locate regions in the world by using latitude and longitude. Is the lesson complicated? Perhaps, but with the right resource it should be easy enough for a second grader to learn. What makes this book effective is the right mix of texts and pictures. A child will be entertained by the colors, and educated by the facts. Buy a copy now!

### **Maskelyne**

Describes the need for sailors to be able to determine their position at sea and the efforts of John Harrison, an eighteenth-century clockmaker who spent his life refining instruments to enable them to do this. Jr Lib Guild.

### **The Perfect Storm**

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

### **Pirate Latitudes**

Fourth-grader Mason struggles to enjoy playing basketball after his best friend persuades him to join a team, and learns that the dog-hating lady next door is not

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so bad after all.

### **The Longitude Prize**

Presents a vivid account of a history-making storm that hit the New England coast in October 1991 and the lives it changed, weaving together the history of the fishing industry, the science of storms, and personal accounts. Tour.

### **The Orchid Thief**

Published in association with Royal Museums Greenwich.

### **Latitude & Longitude: Geography 2nd Grade for Kids | Children's Earth Sciences Books Edition**

Much more than a travel narrative 360 Degrees Longitude: One Family's Journey Around the World is a glimpse at what it means to be a "global citizen"—a progressively changing view of the world as seen through the eyes of an American family of four. After more than a decade of planning, John Higham and his wife September bid their high-tech jobs and suburban lives good-bye, packed up their home and set out with two children, ages eight and eleven, to travel around the

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world. In the course of the next 52 weeks they crossed 24 time zones, visited 28 countries and experienced a lifetime of adventures. Making their way across the world, the Highams discovered more than just different foods and cultures; they also learned such diverse things as a Chilean mall isn't the best place to get your ears pierced, and that elephants appreciate flowers just as much as the next person. But most importantly, they learned about each other, and just how much a family can weather if they do it together. 360 Degrees Longitude employs Google's wildly popular Google Earth as a compliment to the narrative. Using your computer you can spin the digital globe to join the adventure cycling through Europe, feeling the cold stare of a pride of lions in Africa, and breaking down in the Andes. Packed with photos, video and text, the online Google Earth companion adds a dimension not possible with mere paper and ink. Fly over the terrain of the Inca Trail or drill down to see the majesty of the Swiss Alps—without leaving the comfort of your chair.

### **The Planets**

The bestselling author of Longitude and Galileo's Daughter tells the story of Nicolaus Copernicus and the revolution in astronomy that changed the world.

### **A More Perfect Heaven**

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In the early eighteenth century, at the peak of the Enlightenment, an unlikely team of European scientists and naval officers set out on the world's first international, cooperative scientific expedition. Intent on making precise astronomical measurements at the Equator, they were poised to resolve one of mankind's oldest mysteries: the true shape of the Earth. In *Measure of the Earth*, award-winning science writer Larrie D. Ferreiro tells the full story of the Geodesic Mission to the Equator for the very first time. It was an age when Europe was torn between two competing conceptions of the world: the followers of René Descartes argued that the Earth was elongated at the poles, even as Isaac Newton contended that it was flattened. A nation that could accurately determine the planet's shape could securely navigate its oceans, giving it great military and imperial advantages. Recognizing this, France and Spain organized a joint expedition to colonial Peru, Spain's wealthiest kingdom. Armed with the most advanced surveying and astronomical equipment, they would measure a degree of latitude at the Equator, which when compared with other measurements would reveal the shape of the world. But what seemed to be a straightforward scientific exercise was almost immediately marred by a series of unforeseen catastrophes, as the voyagers found their mission threatened by treacherous terrain, a deeply suspicious populace, and their own hubris. A thrilling tale of adventure, political history, and scientific discovery, *Measure of the Earth* recounts the greatest scientific expedition of the Enlightenment through the eyes of the men who completed it—pioneers who overcame tremendous adversity to traverse the towering Andes Mountains in order

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to discern the Earth's shape. In the process they also opened the eyes of Europe to the richness of South America and paved the way for scientific cooperation on a global scale.

### **The Chip**

The information technology manager's role has changed significantly over the past decade. The performance of an organization is increasingly dependent on the performance of the information technology unit and its top executive. Here the author offers a "fly on the wall" view of the executive level activities of five Chief Information Officers (CIOs), operating in different industries. Profiles of these CIOs, developed from over 200 hours of direct observation, provide valuable insights into the strategic impact of this new role. Other CIOs, executives, information technology researchers, information technology students in upper level or graduate courses, managers of technology and innovation, systems managers, and those interested in organizational behavior will all gain a greater understanding of the CIO's critical role within today's organizations.

### **Galileo's Daughter**

A sweeping, lyrical debut about the love and longing between humanity and the

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earth itself, by a major new literary talent from India “Astonishing and completely original, Shubhangi Swarup’s magical novel will change the way you see people—and landscapes, forests, the oceans, snow deserts.”—Nilanjana S. Roy A spellbinding work of literature, *Latitudes of Longing* follows the interconnected lives of characters searching for true intimacy. The novel sweeps across India, from an island, to a valley, a city, and a snow desert, to tell a love story of epic proportions. We follow a scientist who studies trees and a clairvoyant who speaks to them; a geologist working to end futile wars over a glacier; octogenarian lovers; a mother struggling to free her revolutionary son; a yeti who seeks human companionship; a turtle who transforms first into a boat and then a woman; and the ghost of an evaporated ocean as restless as the continents. Binding them all together is a vision of life as vast as the universe itself. A young writer awarded one of the most prestigious prizes in India for this novel, Shubhangi Swarup is a storyteller of extraordinary talent and insight. Richly imaginative and wryly perceptive, *Latitudes of Longing* offers a soaring view of humanity: our beauty and ugliness, our capacity to harm and love one another, and our mysterious and sacred relationship with nature. Longlisted for the International Dublin Literary Award 2020 • Winner of the Tata Literature Live! Award for Debut Fiction • Longlisted for the DSC Prize for South Asian Literature • Shortlisted for the JCB Prize for Indian Literature

## **A Short History of Nearly Everything**

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A fully illustrated edition of the international best-seller Longitude. The Illustrated Longitude recounts in words and images the epic quest to solve the greatest scientific problem of the eighteenth and three prior centuries: determining how a captain could pinpoint his ship's location at sea. All too often throughout the ages of exploration, voyages ended in disaster when crew and cargo were either lost at sea or destroyed upon the rocks of an unexpected landfall. Thousands of lives and the fortunes of nations hung on a resolution to the longitude problem. To encourage a solution, governments established prizes for anyone whose method or device proved successful. The largest reward of £20,000-- truly a king's ransom-- was offered by Britain's Parliament in 1714. The scientific establishment-- from Galileo to Sir Isaac Newton-- had been certain that a celestial answer would be found and invested untold effort in this pursuit. By contrast, John Harrison imagined and built the unimaginable: a clock that told perfect time at sea, known today as the chronometer. Harrison's trials and tribulations during his forty-year quest to win the prize are the culmination of this remarkable story. The Illustrated Longitude brings a new and important dimension to Dava Sobel's celebrated story. It contains the entire original narrative of Longitude, redesigned to accompany 183 images chosen by William Andrewes-- from portraits of every important figure in the story to maps and diagrams, scientific instruments, and John Harrison's remarkable sea clocks themselves. Andrewes's elegant captions and sidebars on scientific and historical events tell their own story of longitude, paralleling and

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illuminating Sobel's memorable tale.

### **Longitude**

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.

### **Ships, Clocks, and Stars**

Rufus McGaugh knew early on that he wanted to see the world-all of it. And, later on, he did just that. *Longitude and Latitude, with Attitude* chronicles Rufus's 49 years of travels around the globe to every country in the world. It relates his experiences, both harrowing and humorous, in entertaining and amusing (sometimes even instructive!) vignettes. Rufus, a Vietnam vet who was awarded the Purple Heart in 1970, became a Vietnam vet against the war, got a college degree, and taught social studies at Brownell Middle School in the affluent Detroit suburb of Grosse Pointe for 39 years. During that time-and before and after-he spent his summers, vacations, and retirement fulfilling a life-long dream to travel to every corner of the Earth. He has visited countries near and far, well known and

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obscure (including the closed regimes of North Korea and Libya). He has met interesting people, seen fascinating sights, and observed unusual events. He has been hassled by the authorities in Russia (twice in one day). He was arrested-and later stalked by a leopard-in Zimbabwe. He met Miss America (well, Miss South Carolina) in Vietnam, outfoxed (or so he thought) a tailor in Hong Kong, and broke both arms bicycling in Cuba. Longitude and Latitude, with Attitude is the unpretentious, often comic, frequently informative chronicle of these and other adventures and misadventures he experienced on his journeys. Other wanderers like him-and armchair travelers everywhere-will be captivated by it. The lively writing is supplemented by more than 50 pictures that inveterate photographer Rufus has taken in the course of his trips.

### **Latitudes of Longing**

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

### **The Man Who Made Time Travel**

Tells the story of John Harrison, an eighteenth-century inventor of watches and clocks, who spent forty years working on a time-machine which could be used to

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accurately determine longitude at sea.

### **The Nature of Information Technology Managerial Work**

Selected by The New York Times Book Review as a Notable Book of the Year A revelatory tale of science, adventure, and modern myth. When the writer Donovan Hohn heard of the mysterious loss of thousands of bath toys at sea, he figured he would interview a few oceanographers, talk to a few beachcombers, and read up on Arctic science and geography. But questions can be like ocean currents: wade in too far, and they carry you away. Hohn's accidental odyssey pulls him into the secretive world of shipping conglomerates, the daring work of Arctic researchers, the lunatic risks of maverick sailors, and the shadowy world of Chinese toy factories. Moby-Duck is a journey into the heart of the sea and an adventure through science, myth, the global economy, and some of the worst weather imaginable. With each new discovery, Hohn learns of another loose thread, and with each successive chase, he comes closer to understanding where his castaway quarry comes from and where it goes. In the grand tradition of Tony Horwitz and David Quammen, Moby-Duck is a compulsively readable narrative of whimsy and curiosity.

### **Time and Navigation**

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Explores the creation and evolution of the solar system's planets through a lens of popular culture, drawing on sources from astrology, science fiction, the fine arts, and other genres to chronicle planetary history in an accessible format.

### **Longitude**

Crystal had destroyed Killashandra's memory, and only crystal could restore it—if she dared! When Killashandra Ree joined the mysterious Heptite Guild, she knew that she would be forever changed. Crystal singing brought ecstasy and pain, near-eternal life . . . and gradual loss of memory. What she hadn't counted on was the loneliness she felt when her heart still remembered what her mind had forgotten. Fortunately, someone still cared enough to try to salvage what was left of Killashandra's mind. But she would have to learn to open herself—to another person, and to all her unpleasant memories. "A treat for long-time McCaffrey fans, a good read and a satisfying look at one of the most haunting facets of the crystal singers' profession."—Locus

### **Finding Longitude**

The young adult adaptation of the acclaimed, #1 New York Times bestseller *Just Mercy*--soon to be a major motion picture starring Michael B. Jordan, Jaime Foxx,

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and Brie Larson and now the subject of an HBO documentary feature! In this very personal work--adapted from the original #1 bestseller, which the New York Times calls "as compelling as To Kill a Mockingbird, and in some ways more so"--acclaimed lawyer and social justice advocate Bryan Stevenson offers a glimpse into the lives of the wrongfully imprisoned and his efforts to fight for their freedom. Stevenson's story is one of working to protect basic human rights for the most vulnerable people in American society--the poor, the wrongly convicted, and those whose lives have been marked by discrimination and marginalization. Through this adaptation, young people of today will find themselves called to action and compassion in the pursuit of justice. Proceeds of this book will go to charity to help in Stevenson's important work to benefit the voiceless and the vulnerable as they attempt to navigate the broken U.S. justice system. A KIRKUS REVIEWS BEST BOOK OF THE YEAR A BOOKLIST EDITORS' CHOICE FEATURED ON CBS THIS MORNING A NEW YORK PUBLIC LIBRARY BEST BOOK OF THE YEAR PRAISE FOR JUST MERCY: A TRUE STORY OF THE FIGHT FOR JUSTICE: "It's really exciting that young people are getting a version tailored for them." --Salon "A deeply moving collage of true stories. . . . This is required reading." --Kirkus Reviews, starred review "Compassionate and compelling, Stevenson's narrative is also unforgettable." --Booklist, starred review PRAISE FOR JUST MERCY: A STORY OF JUSTICE AND REDEMPTION: "Gripping. . . . What hangs in the balance is nothing less than the soul of a great nation." --DESMOND TUTU, Nobel Peace Prize Laureate "Important and compelling." --Pulitzer Prize-winning author TRACY KIDDER

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"Inspiring and powerful." --#1 New York Times bestselling author JOHN GRISHAM

### **Longitude and Latitude, with Attitude**

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.

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### **Mason Dixon**

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.

### **The Map That Changed the World**

In 1793, a canal digger named William Smith made a startling discovery. He found that by tracing the placement of fossils, which he uncovered in his excavations, one could follow layers of rocks as they dipped and rose and fell—clear across

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England and, indeed, clear across the world—making it possible, for the first time ever, to draw a chart of the hidden underside of the earth. Smith spent twenty-two years piecing together the fragments of this unseen universe to create an epochal and remarkably beautiful hand-painted map. But instead of receiving accolades and honors, he ended up in debtors' prison, the victim of plagiarism, and virtually homeless for ten years more. *The Map That Changed the World* is a very human tale of endurance and achievement, of one man's dedication in the face of ruin. With a keen eye and thoughtful detail, Simon Winchester unfolds the poignant sacrifice behind this world-changing discovery.

### **Euclid's Window**

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.

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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**

10 concentration camps. 10 different places where you are starved, tortured, and worked mercilessly. It's something no one could imagine surviving. But it is what Yanek Gruener has to face. As a Jewish boy in 1930s Poland, Yanek is at the mercy of the Nazis who have taken over. Everything he has, and everyone he loves, have been snatched brutally from him. And then Yanek himself is taken prisoner -- his arm tattooed with the words PRISONER B-3087. He is forced from one nightmarish concentration camp to another, as World War II rages all around him. He encounters evil he could have never imagined, but also sees surprising glimpses of hope amid the horror. He just barely escapes death, only to confront it again seconds later. Can Yanek make it through the terror without losing his hope, his will -- and, most of all, his sense of who he really is inside? Based on an astonishing true story.

### **Sea Clocks**

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Barely fifty years ago a computer was a gargantuan, vastly expensive thing that only a handful of scientists had ever seen. The world's brightest engineers were stymied in their quest to make these machines small and affordable until the solution finally came from two ingenious young Americans. Jack Kilby and Robert Noyce hit upon the stunning discovery that would make possible the silicon microchip, a work that would ultimately earn Kilby the Nobel Prize for physics in 2000. In this completely revised and updated edition of *The Chip*, T.R. Reid tells the gripping adventure story of their invention and of its growth into a global information industry. This is the story of how the digital age began. From the Trade Paperback edition.

### **Prisoner B-3087**

Explains the concepts of latitude and longitude as well as the purpose of the compass rose on a map.

### **360 Degrees Longitude**

300 years ago, amidst growing frustration from the naval community and pressure from the increasing importance of international trade, the British government passed the 1714 Longitude Act. It was an attempt to solve one of the most

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pressing problems of the age: how to determine a ship's longitude (east-west position) at sea. With life-changing rewards on offer, the challenge captured the imaginations and talents of astronomers, skilled craftsmen, politicians, seamen and satirists. This illustrated book is a detailed account of these stories, and how the longitude problem was solved.

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