

The Illustrated Longitude

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



DAVA SOBEL
& WILLIAM J H ANDREWES

Longitude The True Story Of A Genius

David Salomoni



Longitude The True Story Of A Genius:

Longitude Dava Sobel, 2007-11-05 Describes the forty year effort of John Harrison to invent the chronometer the first instrument able to keep accurate time for navigational purposes **The Illustrated Longitude** Dava Sobel, William J. H. Andrewes, 1999 Longitude Dava Sobel's no 1 bestseller is the elegant biography of the lone genius who solved the greatest scientific problem of his times With new material from Dava Sobel and William Andrewes and illustrated with over 200 integrated photographs The Illustrated Longitude is the essential book for everyone who fell in love with John Harrison's story and wants to know more Anyone alive in the 18th 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 The scientific establishment throughout Europe from Galileo to Sir Isaac Newton had mapped the heavens in its certain pursuit of a celestial answer In stark contrast one man John Harrison dared to imagine a mechanical solution The Illustrated Longitude is a fascinating history of astronomy navigation and clockmaking Lavishly produced with over 200 illustrations The Illustrated Longitude has much new material to help the reader learn more of John Harrison's extraordinary story and *Longitude* Dava Sobel, 2007 Sobel presents the dramatic human story of an epic scientific quest and of John Harrison's 40 year obsession with building the perfect timekeeper known today as the chronometer **Longitude** Dava Sobel, 2009-07-01 *A Global Earth in the Classroom* David Salomoni, 2024-03-11 This volume offers a scholarly examination of educational history highlighting the pivotal role of educational practices from the late medieval era to the early modern period It provides a dynamic forum for emerging academics in the field revealing fresh multifaceted perspectives on the educational methods of this era The work illuminates the sophisticated educational systems that shaped Renaissance Milan's merchants and the education of cantors in royal courts and cathedrals Spanning from Brazil to India it traces the extensive reach of Jesuit influence and reveals how their teachings fostered an early consciousness of a globally interconnected world in European education Contributors to this volume Bradley Blankemeyer Laura Madella Jessica Ottelli Federico Piseri David Salomoni and Carolina Vaz de Carvalho *Seven Tales of the Pendulum* Gregory L. Baker, 2011-02-24 The pendulum is a unique physical system which exhibits remarkably varied and complex behavior under many different conditions Seven tales detailing different important facets of the pendulum show the exciting diversity of the science of the pendulum and its untold significance in the history of human intellectual development **Teaching of Geography** M.h.siddiqui, [Encyclopedia of Environment and Society](#) Paul Robbins, 2007-08-27 As befits the topic this beautifully packaged wonderfully illustrated interdisciplinary resource has more than 1200 entries written by specialists A helpful reader's guide groups topics like agriculture conservation and ecology movements and regulations politics pollution and society A resource guide chronology glossary and list of the UN's economic indicators complete the set Library Journal this important work gives a well focused

snapshot of environmentalism in the early 21st Century and it will remain valuable into the future both for its content and as a yardstick to measure progress toward sustainability and conservation

Summing Up Recommended Undergraduates and general readers CHOICE Booklist Editors Choice 2008 This superb interdisciplinary work should find a place on the shelves of every public and academic library that has the least bit of interest in environment issues which should mean just about all

Booklist Starred Review Where does the environment leave off and society begin When expanding production and consumption drives greenhouse gas emissions that warm the planet which in turn influence the conditions of economic expansion it is unclear where the climate ends and the economy begins This fact is not new to our era however our social and natural sciences have only recently come to grips with the incredible complexity of the world described by understanding the environment and society as being of a piece As a result in the last decade there has been an unprecedented explosion of new concepts theories facts and techniques that follow from such an understanding The Encyclopedia of Environment and Society brings together multiplying issues concepts theories examples problems and policies with the goal of clearly explicating an emerging way of thinking about people and nature With more than 1 200 entries written by experts from incredibly diverse fields this innovative resource is a first step toward diving into the deep pool of emerging knowledge The five volumes of this Encyclopedia represent more than a catalogue of terms Rather they capture the spirit of the moment a fascinating time when global warming and genetic engineering represent only two of the most obvious examples of socio environmental issues

Key Features Examines many new ideas about how the world works what creates the daunting problems of our time and how such issues might be addressed whether by regulation markets or new ethics Demonstrates how theories of environmental management based on market efficiency may not be easily reconciled with those that focus on population and both may certainly diverge from those centering on ethics justice or labor Offers contributions from experts in their fields of specialty including geographers political scientists chemists anthropologists medical practitioners development experts and sociologists among many others Explores the emerging socio environmental problems that we face in the next century as well as the shifting and expanding theoretical tools available for tackling these problems Covers regions of North America in greater detail but also provides a comprehensive picture that approaches as effectively as possible a cohesive global vision

Key Themes Agriculture Animals Biology and Chemistry Climate Conservation and Ecology Countries Geography History Movements and Regulations Organizations People Politics Pollution Society Packed with essential and up to date information on the state of the global socio environment the Encyclopedia of Environment and Society is a time capsule of its historic moment and a record of where we stand at the start of the 21st century making it a must have resource for any library These inspiring volumes provide an opportunity for more new ways of thinking behaving and living in a more than human world

Navigational Enterprises in Europe and its Empires, 1730-1850 Rebekah Higgitt, Richard Dunn, 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 *Enchantment Of Urania, The: 25 Centuries Of Exploration Of The Sky* Massimo Capaccioli, 2024-03-19 Today we know much about the sky how stars are born how they live and die and how the universe as a whole evolves We have learned of the existence of another type of matter indifferent to light and yet decisive for the formation of galaxies and we have a hint of a dark energy that since the last 4 5 billion years has taken over the control of the cosmos We postulated and then discovered and even photographed black holes and listened to the faint rustle of the space time ripple produced when these monsters devour each other We reached these astonishing results recognized by a bunch of Nobel Prizes and filling every day the media with wonders for the eyes and the mind by the marriage of physics and astronomy that unified the Earth with the sky and then by the leap forward of science and technology in the Twentieth Century This rich heritage has ancient roots It was built by accumulating discoveries with errors observations with fantasies myths and superstitions with flashes of genius over a span of millennia since Homo sapiens turning his eyes to the immutable and perfect sky began to ask questions The book is a narration of the answers to these questions that had evolved over time a progressive path inserted in the general history with some second thoughts and many obstacles This is a saga of men and machines where greatness sometimes mixes with misery and passion often borders on sacrifice and even martyrdom Why should we know it Because our current knowledge is the result of these efforts and of the preconceptions that accompanied them The challenge has been to present this complex and intricate subject without resorting to any formulas so that it can be accessible to a wide audience of curious people including high school and university students and in general all those who normally keep themselves informed of scientific things A rich bibliography has also been added in the appendix for those wishing to learn more on one or more topics **Captain Cook** Frank McLynn, 2011-06-07 This thoroughly researched and sharply opinionated biography presents a nuanced portrait of the renowned 18th century navigator The Wall Street Journal The age of discovery was at its peak in the eighteenth century with bold adventurers charting the furthest reaches of the globe Foremost among these explorers was Captain James Cook of the British Royal Navy Recent writers have viewed Cook through the lens of colonial exploitation regarding him as a villain While they raise important issues many of these critical accounts overlook his major contributions to science navigation and cartography In Captain Cook Frank McLynn re creates the voyages that took the famous navigator from his native England to the outer reaches of the Pacific Ocean Although Cook died in a senseless avoidable conflict with the people of Hawaii McLynn illustrates that to the men with whom he served Cook was master of the seas and nothing less than a titan McLynn reveals Cook's place in history as a brave and brilliant yet tragically flawed man **Between Apocalypse and Eschaton** Joseph S. Flipper, 2015 Between Apocalypse and Eschaton argues that eschatology is the key to de Lubacs theological project and critical to understanding the nouvelle thologie the group of theologians with whom de Lubac was associated While much

recent focuses on the controversies over the supernatural this work returns to an often neglected aspect of de Lubacs work and examines it in the wider historical political and theological context of war torn twentieth century Europe which critically shape the meaning of the end *Shaping the Day* Paul Glennie,Nigel Thrift,2009-02-12 Timekeeping is an essential activity in the modern world and we take it for granted that our lives are shaped by the hours of the day Yet what seems so ordinary today is actually the extraordinary outcome of centuries of technical innovation and circulation of ideas about time *Shaping the Day* is a pathbreaking study of the practice of timekeeping in England and Wales between 1300 and 1800 Drawing on many unique historical sources ranging from personal diaries to housekeeping manuals Paul Glennie and Nigel Thrift illustrate how a particular kind of common sense about time came into being and how it developed during this period Many remarkable figures make their appearance ranging from the well known such as Edmund Halley Samuel Pepys and John Harrison who solved the problem of longitude to less familiar characters including sailors gamblers and burglars Overturning many common perceptions of the past for example that clock time and the industrial revolution were intimately related this unique historical study will engage all readers interested in how telling the time has come to dominate our way of life

Damn! Why Didn't I Write That? Marc McCutcheon,2001 Offers encouragement to amateur writers who want to support themselves by writing Describes the process from idea research query letters and proposals to agents contract negotiations and promotion *Technology-based Inquiry for Middle School* Edwin P. Christmann,2006 The practical tone makes this collection beneficial to in service science teachers as well as pre professionals taking methods courses *Technology Based Inquiry* will give you the confidence that comes with deeper understanding of how to use the latest technology to increase science learning **The Routledge History of the Modern Maritime World since 1500** Kenneth

Morgan,2025-05-01 *The Routledge History of the Modern Maritime World since 1500* provides a wide ranging set of chapters covering the sixteenth century to the present which represent the main lines of current enquiry in maritime history Over the past half century maritime history has become a significant sub field of historical research that intersects with broader historical concerns such as oceanic history global patterns of production and consumption and the maritime heritage industry Informed by original research an engagement with current historiographical concerns and a global geographical reach the book is divided into sections covering shipping ports merchants and trade maritime environments coastal zones and the human dimension Chapters focus on different countries across different ranges of time and also with different methodological approaches The six sections of this book show the significant areas central to the study and understanding of the modern maritime world and collectively they highlight the areas in which the themes pursued by maritime historians have advanced and are currently moving This book will appeal to various academic audiences students will find chapters dealing with major topics in maritime history that will help them in their courses for professional scholars in history archaeology heritage studies historical sociology and economics chapters outline some of the latest research in the field

Seeking Nature's Logic David B. Wilson, 2009-01-01 Studies the path of natural philosophy i.e. physics from Isaac Newton through Scotland into the nineteenth century background to the modern revolution in physics Examines how the history of science has been influenced by John Robison and other notable intellectuals of the Scottish Enlightenment Provided by publisher

The Science of Literature Helmut Müller-Sievers, 2015-04-24 One of the most contentious questions in contemporary literary studies is whether there can ever be a science of literature that can lay claim to objectivity and universality for example by concentrating on philological criticism by appealing to cognitive science or by exposing the underlying media of literary communication The present collection of essays seeks to open up this discussion by posing the question s historical and systematic double has there been a science of literature i.e. a mode of presentation and practice of reference in science that owes its coherence to the discourse of literature Detailed analyses of scientific literary and philosophical texts show that from the late 18th to the late 19th century science and literature were bound to one another through an intricate web of mutual dependence and distinct yet incalculable difference The Science of Literature suggests that this legacy continues to shape the relation between literary and scientific discourses inside and outside of academia

Exploration and Science Michael Sean Reidy, Gary Kroll, Erik M. Conway, 2006-12-27 This comprehensive volume explores the intricate mutually dependent relationship between science and exploration how each has repeatedly built on the discoveries of the other and in the process opened new frontiers A simple question Which came first advances in navigation or successful voyages of discovery A complicated answer Both and neither For more than four centuries scientists and explorers have worked together sometimes intentionally and sometimes not in an ongoing symbiotic partnership When early explorers brought back exotic flora and fauna from newly discovered lands scientists were able to challenge ancient authorities for the first time As a result scientists not only invented new navigational tools to encourage exploration but also created a new approach to studying nature in which observations were more important than reason and authority The story of the relationship between science and exploration analyzed here for the first time is nothing less than the history of modern science and the expanding human universe

The Pythagorean Theorem Eli Maor, 2019-11-19 Frontmatter Contents List of Color Plates Preface Prologue Cambridge England 1993 1 Mesopotamia 1800 BCE Sidebar 1 Did the Egyptians Know It 2 Pythagoras 3 Euclid s Elements Sidebar 2 The Pythagorean Theorem in Art Poetry and Prose 4 Archimedes 5 Translators and Commentators 500 1500 CE 6 François Viète Makes History 7 From the Infinite to the Infinitesimal Sidebar 3 A Remarkable Formula by Euler 8 371 Proofs and Then Some Sidebar 4 The Folding Bag Sidebar 5 Einstein Meets Pythagoras Sidebar 6 A Most Unusual Proof 9 A Theme and Variations Sidebar 7 A Pythagorean Curiosity Sidebar 8 A Case of Overuse 10 Strange Coordinates 11 Notation Notation Notation 12 From Flat Space to Curved Spacetime Sidebar 9 A Case of Misuse 13 Prelude to Relativity 14 From Bern to Berlin 1905 1915 Sidebar 10 Four Pythagorean Brainteasers 15 But Is It Universal 16 Afterthoughts Epilogue Samos 2005 Appendixes Chronology Bibliography Illustrations Credits Index

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web we can balance it for charge by adding two electrons to the right side of the equation so that the net charge on each side is 0 oxidation $\text{Ni} \rightarrow \text{Ni}^{2+} + 2\text{e}^-$ now that the oxidation half reaction is balanced it tells us that two electrons are produced for every atom of nickel oxidized but where do those electrons go

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