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Genius Who Solved



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Problem of His Time

DAVA SOBEL

Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr

Aino Mäkikalli



Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr:

The Illustrated Longitude Dava Sobel, William J. H. Andrewes, 1998 In addition to the text of Longitude this edition also contains over 200 illustrations biographical articles on the major characters additional boxed information on the important scientific nautical historical and artistic events of the day time lines and diagrams to explain geographical horological and astronomical aspects of longitude Longitude Dava Sobel, 2011-04-28 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 Foreword by

Neil Armstrong **Longitude** Dava Sobel, 1996 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 **Instruments, Travel and Science** Marie Noëlle Bourguet, Christian Licoppe, H. Otto

Sibum, 2003-08-29 We are now accustomed to conceive of science as an instrumental activity producing numbers measurements and graphs by means of sophisticated devices This book investigates the historical process that gave rise to this instrumental culture The contributors trace the displacement of instruments across the globe the spread of practices or precision and the circulation and appropriation of skills and knowledge Through comparative and contextual approaches the volume confronts the tension between the local and the global examining the process of the universalization of science Bringing together case studies ranging from the seventeenth to the twentieth centuries contributors discuss French German and British initiatives as well as the knowledge and techniques of travellers in countries such as India Africa South East Asia and the Americas Students and researchers interested in the history of science in both Western and non Western cultures will find this book a valuable and thought provoking read Sync Steven Strogatz, 2004-04-29 SYNC IS A STORY OF A

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

Microstructures in Aerospace Applications Robert Osiander, M. Ann Garrison Darrin, John L. Champion, 2018-10-03 The promise of MEMS for aerospace applications has been germinating for years and current advances bring the field to the very cusp of fruition Reliability is chief among the challenges limiting the deployment of MEMS technologies in space as the requirement of zero failure during the mission is quite stringent for this burgeoning field MEMS and Microstructures in

Aerospace Applications provides all the necessary tools to overcome these obstacles and take MEMS from the lab bench to beyond the exosphere. The book begins with an overview of MEMS development and provides several demonstrations of past and current examples of MEMS in space. From this platform the discussion builds to fabrication technologies, the effect of space environmental factors on MEMS devices, and micro technologies for space systems instrumentation, communications, thermal control, guidance, navigation, and control, and propulsion. Subsequent chapters explore factors common to all of the described systems, such as MEMS packaging, handling, and contamination control, material selection for specific applications, reliability practices for design and application, and assurance practices. Edited and contributed by an outstanding team of leading experts from industry, academia, and national laboratories, *MEMS and Microstructures in Aerospace Applications* illuminates the path toward qualifying and integrating MEMS devices and instruments into future space missions and developing innovative satellite systems.

Georeferencing Linda L. Hill, 2009. An introduction to the principles of unified georeferencing which uses placename and geospatial referencing interchangeably across all types of information storage and retrieval systems. Georeferencing, relating information to geographic location, has been incorporated into today's information systems in various ways. We use online services to map our route from one place to another; science, business, and government increasingly use geographic information systems (GIS) to hold and analyze data. Most georeferenced information searches using today's information systems are done by text query. But text searches for placenames fall short when, for example, a place is known by several names or by none. In addition, text searches don't cover all sources of geographic data; maps are traditionally accessed only through special indexes, filing systems, and agency contacts; data from remote sensing images or aerial photography is indexed by geospatial location, mathematical coordinates such as longitude and latitude. In this book, Linda Hill describes the advantages of integrating placename-based and geospatial referencing, introducing an approach to unified georeferencing that uses placename and geospatial referencing interchangeably across all types of information storage and retrieval systems. After a brief overview of relevant material from cognitive psychology on how humans perceive and respond to geographic space, Hill introduces the reader to basic information about geospatial information objects, concepts of geospatial referencing, the role of gazetteer data, the ways in which geospatial referencing has been included in metadata structures, and methods for the implementation of geographic information retrieval (GIR). Georeferencing will be a valuable reference for librarians, archivists, scientific data managers, information managers, designers of online services, and any information professional who deals with place-based information.

The New ABCs of Research Ben Shneiderman, 2016-02-04. The problems we face in the 21st century require innovative thinking from all of us. Be it students, academics, business researchers, or government policy makers, hopes for improving our healthcare, food supply, community safety, and environmental sustainability depend on the pervasive application of research solutions. The research heroes who take on the immense problems of our time face bigger than ever challenges, but if they adopt potent guiding principles and

effective research lifecycle strategies they can produce the advances that will enhance the lives of many people These inspirational research leaders will break free from traditional thinking disciplinary boundaries and narrow aspirations They will be bold innovators and engaged collaborators who are ready to lead yet open to new ideas self confident yet empathetic to others In this book Ben Shneiderman recognizes the unbounded nature of human creativity the multiplicative power of teamwork and the catalytic effects of innovation He reports on the growing number of initiatives to promote more integrated approaches to research so as to promote the expansion of these efforts It is meant as a guide to students and junior researchers as well as a manifesto for senior researchers and policy makers challenging widely held beliefs about how applied innovations evolve and how basic breakthroughs are made and helping to plot the course towards tomorrow s great advancements

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

From Eternity to Time Aino Mälikalli,2007 This study examines different conceptions of time in Daniel Defoe s 1660 1731 novels The temporal aspects of the novels are surveyed taking into account the historical situation of the novel as a genre and contemporary conceptions of time The modernisation process of the Western world serves as a wider context of the study as present research indicates that Defoe s novels exemplify a multilayered shift from pre modern Western conceptions of time to those of the modern age The author also explores gendered time and economic and cultural values of time in Defoe s novels The book contributes a fresh analysis of Defoe s novels and demonstrates the crucial relation between historical cultural conceptions of time and the historically changing genre of the novel

GPS Declassified Richard D. Easton,2013-10-01 GPS Declassified examines the development of GPS from its secret Cold War military roots to its emergence as a worldwide consumer industry Drawing on previously unexplored documents the authors examine how military rivalries influenced the creation of GPS and shaped public perceptions about its origin Since the United States first program to launch a satellite in the late 1950s the nation has pursued dual paths into space one military and secret the other scientific and public Among the many commercial spinoffs this approach has produced GPS arguably boasts the greatest impact on our daily lives Told by the son of a navy insider whose work helped lay the foundations for the system and a science and technology journalist the story chronicles the research and technological advances required for the development of GPS The authors peek behind the scenes at pivotal events in GPS history They note how the technology moved from the laboratory to the battlefield to the dashboard and the smartphone and they raise the specter of how this technology and its surrounding industry affect public policy Insights into how the system works and how it fits into a long history of advances in navigation tie into discussions of the myriad applications for GPS

In Asian Waters Eric Tagliacozzo,2024-10-29 A sweeping account of how the sea routes of Asia have transformed a vast expanse of the globe

over the past five hundred years powerfully shaping the modern world In the centuries leading up to our own the volume of traffic across Asian sea routes an area stretching from East Africa and the Middle East to Japan grew dramatically eventually making them the busiest in the world The result was a massive circulation of people commodities religion culture technology and ideas In this book Eric Tagliacozzo chronicles how the seas and oceans of Asia have shaped the history of the largest continent for the past half millennium leaving an indelible mark on the modern world in the process Paying special attention to migration trade the environment and cities In Asian Waters examines the long history of contact between China and East Africa the spread of Hinduism and Buddhism across the Bay of Bengal and the intertwined histories of Islam and Christianity in the Philippines The book illustrates how India became central to the spice trade how the Indian Ocean became a British lake between the seventeenth and nineteenth centuries and how lighthouses and sea mapping played important roles in imperialism The volume ends by asking what may happen if China comes to rule the waves of Asia as Britain once did A novel account showing how Asian history can be seen as a whole when seen from the water In Asian Waters presents a voyage into a past that is still alive in the present

The World's Oceans Rainer F. Buschmann, Lance Nolde, 2025-01-23 Discover the science cultural history and environmental importance of our planet's oceans The second edition of this award winning encyclopedia has been updated throughout and includes more than 20 additional entries and highlights timely concerns including overfishing and microplastics while also providing expanded coverage of the role oceans play in modern society from cruise ships to the America's Cup competition Part I of the book features a collection of 10 thematic essays covering the five oceans of the world and broad areas of study such as the shipping industry and the changing nature of ocean boundaries Part II includes more than 115 encyclopedia entries exploring topics ranging from the Bermuda Triangle to maritime law from tsunamis to ocean acidification Sidebars throughout offer fascinating facts that complement the main text The oceans of the world are the lifeblood of our planet They act as a climate regulator absorbing heat and influencing weather patterns The oceans teem with a vast and mostly unexplored diversity of life providing us with food and medicine Historically oceans have been the highways of exploration and trade connecting continents and fostering cultural exchange From ancient Polynesian voyagers to modern shipping lanes societies have relied on the oceans for transportation and resources Yet despite their vastness and importance the world's oceans face numerous threats including the effects of climate change pollution and exploitation of their bounty

An Assessment of Precision Time and Time Interval Science and Technology National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee for an Assessment of Precision Time and Time Interval Science and Technology, 2002-12-04 Knowledge of time is essential to precise knowledge of location and for this reason the Navy with its need to navigate on the high seas has historically played an important role in the development and application of advanced time realization and dissemination technologies Discoveries coming from basic research funded by the Office of Naval Research ONR lie at the heart of today's highest performance atomic clocks Naval

Research Laboratory NRL expertise played a role in developing the space qualified atomic clocks that enable the Global Positioning System GPS and the U S Naval Observatory USNO maintains and disseminates the standard of time for all of the Department of Defense DOD The Navy has made major investments in most aspects of precision time and time interval PTTI science and technology although specific PTTI related research has also been funded by the Defense Advanced Research Projects Agency DARPA and non DOD agencies such as the National Science Foundation NSF the National Aeronautics and Space Administration NASA and the Department of Commerce Navy funding largely through ONR has a history of being an early enabler of key new developments Judicious funding decisions by the Navy particularly by ONR program officers have underpinned most of the major advances in PTTI science and technology S T in the last 50 years PTTI is important to modern naval needs and indeed to all the armed Services for use in both navigation and communications Precise time synchronization is needed to efficiently determine the start of a code sequence in secure communications to perform navigation and to locate the position of signal emitters Precise frequency control is required in communications for spectrum utilization and frequency hopped spread spectrum techniques There are many examples of essential military operations that depend on PTTI and could benefit from improvements in PTTI technology These include GPS clocks and autonomous operations Weapon system four dimensional coordination GPS antijamming Network centric warfare and Secure military communications This report summarizes that reductions in the size weight and power requirements and increases in the ruggedness of PTTI devices without sacrificing performance would put more accurate and precise timekeeping in the hands of the warrior improving capabilities in all of the above operations

A Better Way to Zone Donald L. Elliott, 2012-09-26

Nearly all large American cities rely on zoning to regulate land use According to Donald L Elliott however zoning often discourages the very development that bigger cities need and want In fact Elliott thinks that zoning has become so complex that it is often dysfunctional and in desperate need of an overhaul *A Better Way to Zone* explains precisely what has gone wrong and how it can be fixed *A Better Way to Zone* explores the constitutional and legal framework of zoning its evolution over the course of the twentieth century the reasons behind major reform efforts of the past and the adverse impacts of most current city zoning systems To unravel what has gone wrong Elliott identifies several assumptions behind early zoning that no longer hold true four new land use drivers that have emerged since zoning began and basic elements of good urban governance that are violated by prevailing forms of zoning With insight and clarity Elliott then identifies ten sound principles for change that would avoid these mistakes produce more livable cities and make zoning simpler to understand and use He also proposes five practical steps to get started on the road to zoning reform While recent discussion of zoning has focused on how cities should look *A Better Way to Zone* does not follow that trend Although New Urbanist tools form based zoning and the SmartCode are making headlines both within and outside the planning profession Elliott believes that each has limitations as a general approach to big city zoning While all three trends include innovations that the profession badly needs

they are sometimes misapplied to situations where they do not work well In contrast A Better Way to Zone provides a vision of the future of zoning that is not tied to a particular picture of how cities should look but is instead based on how cities should operate

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 Francois Vi te 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

Calculus in Context Alexander J. Hahn,2017-04-15 A new approach to teaching calculus that uses historical examples and draws on applications from science and engineering Breaking the mold of existing calculus textbooks Calculus in Context draws students into the subject in two new ways Part I develops the mathematical preliminaries including geometry trigonometry algebra and coordinate geometry within the historical frame of the ancient Greeks and the heliocentric revolution in astronomy Part II starts with comprehensive and modern treatments of the fundamentals of both differential and integral calculus then turns to a wide ranging discussion of applications Students will learn that core ideas of calculus are central to concepts such as acceleration force momentum torque inertia and the properties of lenses Classroom tested at Notre Dame University this textbook is suitable for students of wide ranging backgrounds because it engages its subject at several levels and offers ample and flexible problem set options for instructors Parts I and II are both supplemented by expansive Problems and Projects segments Topics covered in the book include the basics of geometry trigonometry algebra and coordinate geometry and the historical scientific agenda that drove their development a brief introductory calculus from the works of Newton and Leibniz a modern development of the essentials of differential and integral calculus the analysis of specific relatable applications such as the arc of the George Washington Bridge the dome of the Pantheon the optics of a telescope the dynamics of a bullet the geometry of the pseudosphere the motion of a planet in orbit and the momentum of an object in free fall Calculus in Context is a compelling exploration for students and instructors alike of a discipline that is both rich in conceptual beauty and broad in its applied relevance

The Last Blank Spaces Dane Kennedy,2013-03-01 The challenge of opening Africa and Australia to British imperial influence fell to a coterie of proto professional explorers who sought knowledge adventure and fame but often experienced confusion fear and failure Kennedy follows the arc of these explorations from idea to practice intention to outcome myth to reality

The Runaway Species David Eagleman,Anthony Brandt,2017-10-10 This enlightening

examination of creativity looks at art and science together to examine how innovations build on what already exists and rely on three brain operations bending breaking and blending The Wall Street Journal The Runaway Species is a deep dive into the creative mind a celebration of the human spirit and a vision of how we can improve our future by understanding and embracing our ability to innovate David Eagleman and Anthony Brandt seek to answer the question what lies at the heart of humanity's ability and drive to create Our ability to remake our world is unique among all living things But where does our creativity come from how does it work and how can we harness it to improve our lives schools businesses and institutions Eagleman and Brandt examine hundreds of examples of human creativity through dramatic storytelling and stunning images in this beautiful full color volume By drawing out what creative acts have in common and viewing them through the lens of cutting edge neuroscience they uncover the essential elements of this critical human ability and encourage a more creative future for all of us The Runaway Species approaches creativity scientifically but sensitively feeling its roots without pulling them out The Economist

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Table of Contents Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr

1. Understanding the eBook Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - The Rise of Digital Reading Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Advantages of eBooks Over Traditional Books
2. Identifying Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - User-Friendly Interface
4. Exploring eBook Recommendations from Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Personalized Recommendations
 - Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr User Reviews and Ratings
 - Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr and Bestseller Lists
5. Accessing Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr Free and Paid eBooks
 - Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr Public Domain eBooks
 - Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr eBook Subscription Services
 - Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr Budget-Friendly Options

6. Navigating Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr eBook Formats
 - ePub, PDF, MOBI, and More
 - Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr Compatibility with Devices
 - Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Highlighting and Note-Taking Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Interactive Elements Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
8. Staying Engaged with Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
9. Balancing eBooks and Physical Books Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Setting Reading Goals Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Fact-Checking eBook Content of Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Pr
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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