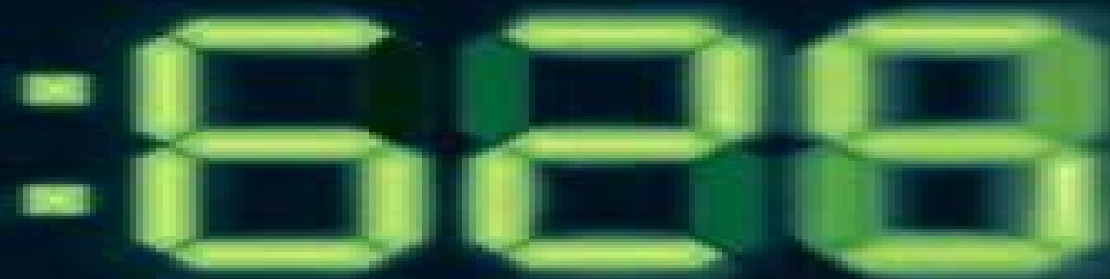


# SPLITTING THE SECOND

THE STORY OF ATOMIC TIME

A glowing green digital clock display showing the number 6.00. The digits are composed of seven-segment patterns, with the decimal point and the first zero being slightly brighter than the other segments. The display is set against a dark blue background.

TONY JONES

**IoP**

# Splitting The Second The Story Of Atomic Time

**Jeff Hecht**



## **Splitting The Second The Story Of Atomic Time:**

**Splitting The Second** Tony Jones, 2000-01-01 Until the 1950s timekeeping was based on the apparent motion of the Sun that in turn reflected the rotation of the Earth on its axis But the Earth does not turn smoothly By the 1940s it was clear that the length of the day fluctuated unpredictably and with it the length of the second Astronomers wanted to redefine the second in terms of the motions of the Moon and the planets Physicists wanted to dispense with astronomical time altogether and define the second in terms of the fundamental properties of atoms The physicists won The revolution began in June 1955 with the operation of the first successful atomic clock and was complete by October 1967 when the atomic second ousted the astronomical second as the international unit of time *Splitting the Second The Story of Atomic Time* presents the story of this revolution explaining how atomic clocks work how more than 200 of them are used to form the world's time and why we need leap seconds The book illustrates how accurate time is distributed around the world and what it is used for It concludes with a look at the future of timekeeping

*Splitting The Second* A Jones, 2000-01-01 Until the 1950s timekeeping was based on the apparent motion of the Sun that in turn reflected the rotation of the Earth on its axis But the Earth does not turn smoothly By the 1940s it was clear that the length of the day fluctuated unpredictably and with it the length of the second Astronomers wanted to redefine the second in terms of the motion

*Mystery Of Time, The: Asymmetry Of Time And Irreversibility In The Natural Processes* Alexander Leonidovich Kuzemsky, 2022-10-14 The book focuses on the study of the temporal behavior of complex many particle systems The phenomenon of time and its role in the temporal evolution of complex systems is a remaining mystery The book presents the necessity of the interdisciplinary point of view regarding on the phenomenon of time The aim of the present study is to summarize and formulate in a concise but clear form the trends and approaches to the concept of time from a broad interdisciplinary perspective exposing tersely the complementary approaches and theories of time in the context of thermodynamics statistical physics cosmology theory of information biology and biophysics including the problem of time and aging Various approaches to the problem show that time is an extraordinarily interdisciplinary and multifaceted underlying notion which plays an extremely important role in various natural complex processes

*Nanometer Frequency Synthesis Beyond the Phase-Locked Loop* Liming Xiu, 2012-06-22 Introducing a new pioneering approach to integrated circuit design *Nanometer Frequency Synthesis Beyond Phase Locked Loop* introduces an innovative new way of looking at frequency that promises to open new frontiers in modern integrated circuit IC design While most books on frequency synthesis deal with the phase locked loop PLL this book focuses on the clock signal It revisits the concept of frequency solves longstanding problems in on chip clock generation and presents a new time based information processing approach for future chip design Beginning with the basics the book explains how clock signal is used in electronic applications and outlines the shortcomings of conventional frequency synthesis techniques for dealing with clock generation problems It introduces the breakthrough concept of Time Average Frequency presents the Flying Adder

circuit architecture for the implementation of this approach and reveals a new circuit device the Digital to Frequency Converter DFC Lastly it builds upon these three key components to explain the use of time rather than level to represent information in signal processing Provocative inspiring and chock full of ideas for future innovations the book features A new way of thinking about the fundamental concept of clock frequency A new circuit architecture for frequency synthesis the Flying Adder direct period synthesis A new electronic component the Digital to Frequency Converter A new information processing approach time based vs level based Examples demonstrating the power of this technology to build better cheaper and faster systems Written with the intent of showing readers how to think outside the box Nanometer Frequency Synthesis Beyond the Phase Locked Loop is a must have resource for IC design engineers and researchers as well as anyone who would like to be at the forefront of modern circuit design

**Frequency Standards** Fritz Riehle, 2006-03-06 Of all measurement units frequency is the one that may be determined with the highest degree of accuracy It equally allows precise measurements of other physical and technical quantities whenever they can be measured in terms of frequency This volume covers the central methods and techniques relevant for frequency standards developed in physics electronics quantum electronics and statistics After a review of the basic principles the book looks at the realisation of commonly used components It then continues with the description and characterisation of important frequency standards from atomic clocks to frequency stabilised lasers The whole is rounded off with a discussion of topical applications in engineering telecommunications and metrology

**About Time: A History of Civilization in Twelve Clocks** David Rooney, 2021-08-17 A captivating surprising history of timekeeping and how it has shaped our world For thousands of years people of all cultures have made and used clocks from the city sundials of ancient Rome to the medieval water clocks of imperial China hourglasses fomenting revolution in the Middle Ages the Stock Exchange clock of Amsterdam in 1611 Enlightenment observatories in India and the high precision clocks circling the Earth on a fleet of GPS satellites that have been launched since 1978 Clocks have helped us navigate the world and build empires and have even taken us to the brink of destruction Elites have used them to wield power make money govern citizens and control lives and sometimes the people have used them to fight back Through the stories of twelve clocks About Time brings pivotal moments from the past vividly to life Historian and lifelong clock enthusiast David Rooney takes us from the unveiling of al Jazari's castle clock in 1206 in present day Turkey to the Cape of Good Hope observatory at the southern tip of Africa where nineteenth century British government astronomers moved the gears of empire with a time ball and a gun to the burial of a plutonium clock now sealed beneath a public park in Osaka where it will keep time for 5 000 years Rooney shows through these artifacts how time has been imagined politicized and weaponized over the centuries and how it might bring peace Ultimately he writes the technical history of horology is only the start of the story A history of clocks is a history of civilization

**From Frequency to Time-Average-Frequency** Liming Xiu, 2015-04-20 Written in a simple easy to understand style this book will teach PLL users

how to use new clock technology in their work in order to create innovative applications Investigates the clock frequency concept from a different perspective at an application level Teaches engineers to use this new clocking technology to create innovations in chip system level through real examples extracted from commercial products      **Measurement,**

**Instrumentation, and Sensors Handbook** John G. Webster, Halit Eren, 2017-12-19 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Electromagnetic Optical Radiation Chemical and Biomedical Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement

Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement provides readers with a greater understanding of advanced applications      *The Value of Time in Early Modern English Literature* Tina Skouen, 2017-10-02 The stigma of haste pervaded early modern English culture more so than the so called stigma of print The period's writers were perpetually short on time but what does it mean for authors to present themselves as hasty or slow or to characterize others similarly This book argues that such classifications were a way to define literary value To be hasty was in a sense to be irresponsible but in another sense it signaled a necessary practicality Expressions of haste revealed a deep conflict between the ideal of slow writing in classical and humanist rhetoric and the sometimes grim reality of fast printing Indeed the history of print is a history of haste which carries with it a particular set of modern anxieties that are difficult to understand in the absence of an interdisciplinary approach Many previous studies have concentrated on the period's competing definitions of time and on the obsession with how to use time well Other studies have considered time as a notable literary theme This book is the first to connect ideas of time to writerly haste in a richly interdisciplinary manner drawing upon rhetorical theory book history poetics religious studies and early modern moral philosophy which only when taken together provide a genuinely deep understanding of why the stigma of haste so preoccupied the early modern mind *The Value of Time in Early Modern English Literature* surveys the period from ca 1580 to ca 1730 with special emphasis on the seventeenth century The material discussed is found in emblem books devotional literature philosophical works and collections of poetry drama and romance Among classical sources Horace and Quintilian

are especially important The main authors considered are Robert Parsons Edmund Bunny King James 1 Henry Peacham Thomas Nash Robert Greene Ben Jonson Margaret Cavendish John Dryden Richard Baxter Jonathan Swift Alexander Pope By studying these writers expressions of time and haste we may gain a better understanding of how authorship was defined at a time when the book industry was gradually taking the place of classical rhetoric in regulating writers activities **Where Minds and Matters Meet** Volker Janssen, Amy Bix, Linda Nash, 2012-12-12 The American West where such landmarks as the Golden Gate Bridge rival wild landscapes in popularity and iconic significance has been viewed as a frontier of technological innovation Where Minds and Matters Meet calls attention to the convergence of Western history and the history of technology showing that the region s politics and culture have shaped seemingly placeless global technological practices and institutions Drawing on political and social history as well as art history the book s essays take the cultural measure of the region s great technological milestones including San Diego s Panama California Exposition the building of the Hetch Hetchy Dam in the Sierras and traffic planning in Los Angeles Contributors Amy Bix Louise Nelson Dyble Patrick McCray Linda Nash Peter Neushul Matthew W Roth Bruce Sinclair L Chase Smith Carlene Stephens Aristotle Tympas Jason Weems Peter Westwick Stephanie Young **Gale Researcher Guide for: Measuring Time** Martha Baldwin, 2018-09-28 Gale Researcher Guide for Measuring Time is selected from Gale s academic platform Gale Researcher These study guides provide peer reviewed articles that allow students early success in finding scholarly materials and to gain the confidence and vocabulary needed to pursue deeper research **Time, Law, and Change** Sofia Ranchordás, Yaniv Roznai, 2020-04-16 Offering a unique perspective on an overlooked subject the relationship between time change and lawmaking this edited collection brings together world leading experts to consider how time considerations and social political and technological change affect the legislative process the interpretation of laws the definition of the powers of the government and the ability of legal orders to promote innovation Divided into four parts each part considers a different form of interaction between time and law and change The first part offers legal theoretical and historical perspectives on the relationship between time and law and how time shaped law and influences legal interpretation and constitutional change The second part offers the reader an analysis of the different ways in which courts approach the impact of time on law as well as theoretical and empirical reflections upon the meaning of the principle of legal certainty legitimate expectations and the influence of law over time The third part of the book analyses how legislation and the legislative process addresses time and change and the various challenges they create to the legal order The fourth and final part addresses the complex relationship between fast paced technological change and the regulation of innovations The Oxford Handbook of Philosophy of Time Craig Callender, 2011-04-07 As the study of time has flourished in the physical and human sciences the philosophy of time has come into its own as a lively and diverse area of academic research Philosophers investigate not just the metaphysics of time and our experience and representation of time but the role of time in ethics and action and philosophical issues in the sciences of

time especially with regard to quantum mechanics and relativity theory This Handbook presents twenty three specially written essays by leading figures in their fields it is the first comprehensive collaborative study of the philosophy of time and will set the agenda for future work

Beam : The Race to Make the Laser Jeff Hecht,2005-02-11 In 1954 Charles Townes invented the laser s microwave cousin the maser The next logical step was to extend the same physical principles to the shorter wavelengths of light but the idea did not catch fire until October 1957 when Townes asked Gordon Gould about Gould s research on using light to excite thallium atoms Each took the idea and ran with it The independent minded Gould sought the fortune of an independent inventor the professorial Townes sought the fame of scientific recognition Townes enlisted the help of his brother in law Arthur Schawlow and got Bell Labs into the race Gould turned his ideas into a patent application and a million dollar defense contract They soon had company Ali Javan one of Townes s former students began pulling 90 hour weeks at Bell Labs with colleague Bill Bennett And far away in California a bright young physicist named Ted Maiman became a very dark horse in the race While Schawlow proclaimed that ruby could never make a laser Maiman slowly convinced himself it would As others struggled with recalcitrant equipment and military secrecy Maiman built a tiny and elegant device that fit in the palm of his hand His ruby laser worked the first time he tried it on May 16 1960 but afterwards he had to battle for acceptance as the man who made the first laser Beam is a fascinating tale of a remarkable and powerful invention that has become a symbol of modern technology

*Gravity's Time* C. S. Unnikrishnan,2022-04-27 This book is unique and exceptional in dealing with the notion of physical time rigorously both logically and empirically The central theme is the intimate relation between physical time and cosmic gravity It establishes and explains in an accessible manner the one crucial physical fact that has been missed in the development of modern physics that the enormous gravity of the matter and energy in the Universe is the controller and cause of the relativistic time The material in the book is accurate and free of the ambiguities in the discussion of time and its modifications dilation synchronization of clocks and simultaneity The contents go beyond the current theories of relativity that fail to incorporate the cosmic gravity in their structure The discussion of clocks in satellite navigational systems like the GPS is the most complete and accurate The book offers several new insights and it is the only available treatise on the complete physical truth about time The contents are addressed to a wide range of readers from general readers and students to experienced researchers and will also appeal well to philosophers and historians of physics This book has the enabling quality to deal with difficult questions about physical time with unprecedented clarity and without paradoxes

*Trapped Charged Particles: A Graduate Textbook With Problems And Solutions* Richard C Thompson,Niels Madsen,Martina Knoop,2016-04-15 At Les Houches in January 2015 experts in the field of charged particle trapping came together for the Second Winter School on Physics with Trapped Charged Particles This textbook collates the lectures delivered there covering the fundamental physics of particle traps and the different types of applications of these devices Taken as a whole the book gives an overview of why traps for charged particles are important how they work their

special features and limitations and their application in areas such as precision measurements mass spectrometry optical clocks plasma physics antihydrogen creation quantum simulation and quantum information processing Chapters from various world experts include those on the basic properties of Penning traps and RF traps as well as those covering important practical aspects such as vacuum systems detection techniques and different types of particle cooling including laser cooling Each individual chapter provides information and guidance on the application of the above methods Additionally each chapter is complemented by fully worked problems and solutions making Trapped Charged Particles perfect for advanced undergraduate and postgraduate students new to this topic

**About Time** Adam Frank,2012-09-11 The Big Bang is dead and astrophysicist Adam Frank explains how our experience of time will change as a result *A General History of Horology* Anthony Turner,James Nye,Jonathan Betts,2022-07-28 A General History of Horology describes instruments used for the finding and measurement of time from Antiquity to the 21st century In geographical scope it ranges from East Asia to the Americas The instruments described are set in their technical and social contexts and there is also discussion of the literature the historiography and the collecting of the subject The book features the use of case studies to represent larger topics that cannot be completely covered in a single book The international body of authors have endeavoured to offer a fully world wide survey accessible to students historians collectors and the general reader based on a firm understanding of the technical basis of the subject At the same time as the work offers a synthesis of current knowledge of the subject it also incorporates the results of some fundamental new and original research

**The Marvelous Clouds** John Durham Peters,2015-06-19 An ambitious re writing a re synthesis even of concepts of media and culture It is nothing less than an attempt at a history of Being Los Angeles Review of Books When we speak of clouds these days it is as likely that we mean data clouds or network clouds as cumulus or stratus In their sharing of the term both kinds of clouds reveal an essential truth that the natural world and the technological world are not so distinct In The Marvelous Clouds John Durham Peters argues that though we often think of media as environments the reverse is just as true environments are media Peters defines media expansively as elements that compose the human world Drawing from ideas implicit in media philosophy Peters argues that media are more than carriers of messages they are the very infrastructures combining nature and culture that allow human life to thrive Through an encyclopedic array of examples from the oceans to the skies The Marvelous Clouds reveals the long prehistory of so called new media Digital media Peters argues are an extension of early practices tied to the establishment of civilization such as mastering fire building calendars reading the stars creating language and establishing religions New media do not take us into uncharted waters but rather confront us with the deepest and oldest questions of society and ecology how to manage the relations people have with themselves others and the natural world A wide ranging meditation on the many means we have employed to cope with the struggles of existence from navigation to farming meteorology to Google The Marvelous Clouds shows how media lie at the very heart of our interactions with the world around us

**Splitting The**



**Second The Story Of Atomic Time** T. Jones, 2000

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