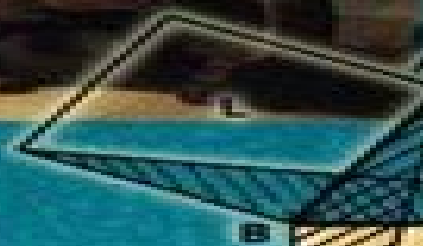
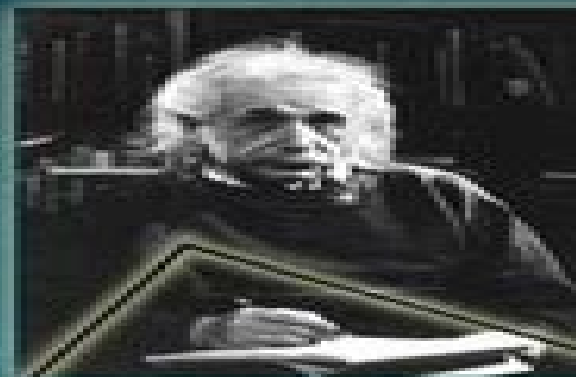
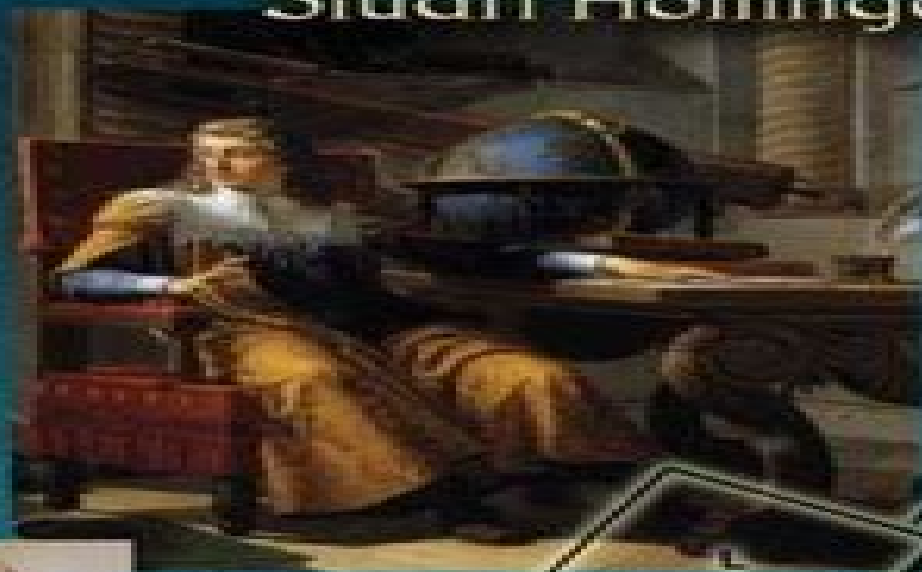


# Makers of Mathematics

Stuart Hollingdale



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**Yoyo Book**



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*Makers of Mathematics* Stuart Hollingdale, S. H. Hollingdale, 1989 A history of the discoveries of the major figures in mathematics from the Ancients to Einstein It includes separate chapters on the work of mathematicians such as Descartes Fermat Pascal Newton Leibnitz Euler Gauss Hamilton Babbage and Einstein The reader does not require anything more than a rusty knowledge of A Level maths Both pure and applied mathematics are covered as most of the greats worked in both areas

Makers of Mathematics Stuart Hollingdale, 2014-06-10 Each chapter of this accessible portrait of the evolution of mathematics examines the work of an individual Archimedes Descartes Newton Einstein others to explore the mathematics of his era 1989 edition Mathematics for the Nonmathematician Morris Kline, 2013-04-15 Erudite and entertaining overview follows development of mathematics from ancient Greeks to present Topics include logic and mathematics the fundamental concept differential calculus probability theory much more Exercises and problems

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**Nice Numbers** John Barnes, 2016-11-25 In this intriguing book John Barnes takes us on a journey through aspects of numbers much as he took us on a geometrical journey in *Gems of Geometry* Similarly originating from a series of lectures for adult students at Reading and Oxford University this book touches a variety of amusing and fascinating topics regarding numbers and their uses both ancient and modern The author informs and intrigues his audience with both fundamental number topics such as prime numbers and cryptography and themes of daily needs and pleasures such as counting one's assets keeping track of time and enjoying music Puzzles and exercises at the end of each lecture offer additional inspiration and numerous illustrations accompany the reader Furthermore a number of appendices provides in depth insights into diverse topics such as Pascal's triangle the Rubik cube Mersenne's curious keyboards and many others A theme running through is the thought of what is our favourite number Written in an engaging and witty style and requiring only basic school mathematical knowledge this book will appeal to both young and mature readers fascinated by the curiosities of numbers

**Philosophy as Frustration** Bruce Silver, 2013-06-20 In *Philosophy as Frustration* Happiness Found and Feigned from Greek Antiquity to Present Bruce Silver analyzes important views of happiness from Greek antiquity into the present He argues that in many cases philosophers and positive psychologists do a poor job of defending the views of happiness they promote Too often the philosophical approaches to what constitutes happiness are at odds with themselves and with possibilities for living happily In some cases readers discover that the phrase happy human being is oxymoronic and that the most a person can expect is a life that is a measure of calm Collineations and Conic Sections Christopher Baltus, 2020-09-01 This volume combines an introduction to central collineations with an introduction to projective geometry set in its historical context and aiming to provide the reader with a general history through the middle of the nineteenth

century Topics covered include but are not limited to The Projective Plane and Central Collineations The Geometry of Euclid's Elements Conic Sections in Early Modern Europe Applications of Conics in History With rare exception the only prior knowledge required is a background in high school geometry As a proof based treatment this monograph will be of interest to those who enjoy logical thinking and could also be used in a geometry course that emphasizes projective geometry

**What happens if light slows down** Yoyo Book,2010-07-31 2000 word essay entitled What will happen if the speed of light is reduced to 3000 m/s Won the first runners up for essay competition Includes additional information on relativity for beginners

**Virtual Worlds** Benjamin Woolley,1993 In Virtual Worlds Benjamin Woolley examines the reality of virtual reality He looks at the dramatic intellectual and cultural upheavals that gave birth to it the hype that surrounds it the people who have promoted it and the dramatic implications of its development Virtual reality is not simply a technology it is a way of thinking created and promoted by a group of technologists and thinkers that sees itself as creating our future Virtual Worlds reveals the politics and culture of these virtual realists and examines whether they are creating reality or losing their grasp of it 12 photographs

The Story of Science: Aristotle Leads the Way Joy Hakim,2016-04-26 Readers will travel back in time to ancient Babylonia Egypt and Greece They will meet the world's first astronomers mathematicians and physicists and explore the lives and ideas of such famous people as Pythagoras Archimedes Brahmagupta al Khwarizmi Fibonacci Ptolemy St Augustine and St Thomas Aquinas Hakim will introduce them to Aristotle one of the greatest philosophers of all time whose scientific ideas dominated much of the world for eighteen centuries In the three book The Story of Science series master storyteller Joy Hakim narrates the evolution of scientific thought from ancient times to the present With lively character driven narrative Hakim spotlights the achievements of some of the world's greatest scientists and encourages a similar spirit of inquiry in readers The books include hundreds of color photographs charts maps and diagrams informative sidebars suggestions for further reading and excerpts from the writings of great scientists

**Biographies of Scientists for Sci-Tech Libraries** Tony Stankus,2019-12-05 This book first published in 1991 is an invaluable guide to biographies of scientists from a wide variety of scientific fields The books selected for this highly descriptive bibliography help librarians shatter readers stereotypes of scientists as monomaniacal and uninteresting people by providing interesting and provocative titles to capture the interest of students and other readers The biographies included in this very special bibliography were carefully selected for their humour and human insights to give future scientists encouragement inspiration and an understanding of the origins of particular scientific fields These biographies are unique in that they explore the whole personality of the scientist giving students a glimpse at the variety and drama of the lives beyond well known contributions or Nobel prize accomplishments

The Pythagorean Theorem Eli Maor,2019-11-19 An exploration of one of the most celebrated and well known theorems in mathematics By any measure the Pythagorean theorem is the most famous statement in all of mathematics In this book Eli Maor reveals the full story of this ubiquitous geometric theorem Although attributed to

Pythagoras the theorem was known to the Babylonians more than a thousand years earlier Pythagoras may have been the first to prove it but his proof if indeed he had one is lost to us The theorem itself however is central to almost every branch of science pure or applied Maor brings to life many of the characters that played a role in its history providing a fascinating backdrop to perhaps our oldest enduring mathematical legacy      **Makers of Mathematics** Stuart Hollingdale,1994

**Great Feuds in Mathematics** Hal Hellman,2010-12-17 Praise for Hal Hellman Great Feuds in Mathematics Those who think that mathematicians are cold mechanical proving machines will do well to read Hellman s book on conflicts in mathematics The main characters are as excitable and touchy as the next man But Hellman s stories also show how scientific fights bring out sharper formulations and better arguments Professor Dirk van Dalen Philosophy Department Utrecht University Great Feuds in Technology There s nothing like a good feud to grab your attention And when it comes to describing the battle Hal Hellman is a master New Scientist Great Feuds in Science Unusual insight into the development of science I was excited by this book and enthusiastically recommend it to general as well as scientific audiences American Scientist Hellman has assembled a series of entertaining tales many fine examples of heady invective without parallel in our time Nature Great Feuds in Medicine This engaging book documents the reactions in ten of the most heated controversies and rivalries in medical history The disputes detailed are fascinating It is delicious stuff here The New York Times Stimulating Journal of the American Medical Association      **Finite Mathematics** A. K. Sharma,2009      [Guide to Information Sources in Mathematics and Statistics](#) Martha A. Tucker,Nancy D. Anderson,2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free      *The Mathematical Traveler* Calvin C. Clawson,2013-11-11 As he persuasively argues the mathematical concepts that arose and flourished in the ancient world enabled the creation of architectural masterpieces as well as the establishment of vast trade networks      *Mathematics: The Man-Made Universe* Sherman K. Stein,2013-03-21 Highly readable volume covers number theory topology set theory geometry algebra and analysis plus the primes fundamental theory of arithmetic probability and more Solutions manual available upon request 1994 edition      **Trigonometric Delights** Eli Maor,2011-12-20 Trigonometry has always been the

black sheep of mathematics It has a reputation as a dry and difficult subject a glorified form of geometry complicated by tedious computation In this book Eli Maor draws on his remarkable talents as a guide to the world of numbers to dispel that view Rejecting the usual arid descriptions of sine cosine and their trigonometric relatives he brings the subject to life in a compelling blend of history biography and mathematics He presents both a survey of the main elements of trigonometry and a unique account of its vital contribution to science and social development Woven together in a tapestry of entertaining stories scientific curiosities and educational insights the book more than lives up to the title *Trigonometric Delights* Maor whose previous books have demystified the concept of infinity and the unusual number  $e$  begins by examining the proto trigonometry of the Egyptian pyramid builders He shows how Greek astronomers developed the first true trigonometry He traces the slow emergence of modern analytical trigonometry recounting its colorful origins in Renaissance Europe's quest for more accurate artillery more precise clocks and more pleasing musical instruments Along the way we see trigonometry at work in for example the struggle of the famous mapmaker Gerardus Mercator to represent the curved earth on a flat sheet of paper we see how M C Escher used geometric progressions in his art and we learn how the toy Spirograph uses epicycles and hypocycles Maor also sketches the lives of some of the intriguing figures who have shaped four thousand years of trigonometric history We meet for instance the Renaissance scholar Regiomontanus who is rumored to have been poisoned for insulting a colleague and Maria Agnesi an eighteenth century Italian genius who gave up mathematics to work with the poor but not before she investigated a special curve that due to mistranslation bears the unfortunate name the witch of Agnesi The book is richly illustrated including rare prints from the author's own collection *Trigonometric Delights* will change forever our view of a once dreaded subject

**The Brain: Unraveling the Mystery of How It Works** Thomas L. Saaty, 2019-03-01 This work confirms what many contemporary thinkers have claimed that all human actions sensations thoughts and even emotions are derived from the synthesis of neural firings in the brain This book offers the mathematics to describe how this happens and the nature of their interaction feedback and synthesis As an acknowledgement of his expertise in 2017 the last year of his life the highly acclaimed *Neural Networks* journal published two of his papers on the subject and the *European Journal of Pure and Applied Mathematics* published the article *Origin of neural firing and synthesis in making comparisons* co authored with Dr Luis Vargas The purpose of this book is to construct a scientific framework of the process by which the brain responds to stimuli and integrates sensory data and further how it synthesizes perceptions memories inputs from the muscles and nervous systems of the body and ideas Because the brain puts pieces of information together in stages

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molecules and ions contain polar bonds which of these molecules and ions have dipole moments a clf<sub>5</sub> b clo<sub>2</sub> clo<sub>2</sub> c tecl<sub>2</sub> 4  
tecl<sub>4</sub> 2 d pcl<sub>3</sub> e sef<sub>4</sub> f ph<sub>2</sub> ph<sub>2</sub> g xef<sub>2</sub> answer problem 6 2 3 6 2 3

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molecule and sum to yield a considerable dipole moment the molecules are relatively polar for molecules of high symmetry  
such as bf<sub>3</sub> trigonal planar ch<sub>4</sub> tetrahedral pf<sub>5</sub> trigonal bipyramidal and sf<sub>6</sub>

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