

# Journey Through Genius

Journey Through Genius-William Dunham 1991 Like masterpieces of art, music, and literature, great mathematical theorems are creative milestones, works of genius destined to last forever. Now William Dunham gives them the attention they deserve. Dunham places each theorem within its historical context and explores the very human and often turbulent life of the creator -- from Archimedes, the absentminded theoretician whose absorption in his work often precluded eating or bathing, to Gerolamo Cardano, the sixteenth-century mathematician whose accomplishments flourished despite a bizarre array of misadventures, to the paranoid genius of modern times, Georg Cantor. He also provides step-by-step proofs for the theorems, each easily accessible to readers with no more than a knowledge of high school mathematics. A rare combination of the historical, biographical, and mathematical, Journey Through Genius is a fascinating introduction to a neglected field of human creativity. "It is mathematics presented as a series of works of art; a fascinating lingering over individual examples of ingenuity and insight. It is mathematics by lightning flash." -- Isaac Asimov

The Mathematical Universe-William Dunham 1997-02-18 "Dunham writes for nonspecialists, and they will enjoy his piquant anecdotes and amusing asides -- Booklist "Artfully, Dunham conducts a tour of the mathematical universe. . .he believes these ideas to be accessible to the audience he wants to reach, and he writes so that they are." -- Nature "If you want to encourage anyone's interest in math, get them The Mathematical Universe." \* New Scientist

Viaje a través de los genios-William Dunham 2004

1997

1994: Journey through genius

The Calculus Gallery-William Dunham 2018-11-13 More than three centuries after its creation, calculus remains a dazzling intellectual achievement and the gateway to higher mathematics. This book charts its growth and development by sampling from the work of some of its foremost practitioners, beginning with Isaac Newton and Gottfried Wilhelm Leibniz in the late seventeenth century and continuing to Henri Lebesgue at the dawn of the twentieth. Now with a new preface by the author, this book documents the evolution of calculus from a powerful but logically chaotic subject into one whose foundations are thorough, rigorous, and unflinching—a story of genius triumphing over some of the toughest, subtlest problems imaginable. In touring The Calculus Gallery, we can see how it all came to be.

The G. H. Hardy Reader-Donald J. Albers 2016-03-31 G. H. Hardy (1877-1947) ranks among the great mathematicians of the twentieth century. He did essential research in number theory and analysis, held professorships at Cambridge and Oxford, wrote important textbooks as well as the classic A Mathematician's Apology, and famously collaborated with J. E. Littlewood and Srinivasa Ramanujan. Hardy was a colorful character with remarkable expository skills. This book is a feast of G. H. Hardy's writing. There are selections of his mathematical papers, his book reviews, his tributes to departed colleagues. Some articles are serious, whereas others display a wry sense of humor. And there are recollections by those who knew Hardy, along with biographical and mathematical pieces written explicitly for this collection. Fans of Hardy should find much here to like. And for those unfamiliar with his work, The G. H. Hardy Reader provides an introduction to this extraordinary individual.

2018

2014-08-01 400



Edwin Abbott 2019-12-03 1884-1926 City of London School John Von Neuman (Pansci) CAREhER www.facebook.com/iweilai0924

The Genius of Euler: Reflections on his Life and Work-William Dunham 2020-08-03

Simon Schama 2018-02-05 BBC 40 Speaking of Books Asher Yarden

Kline, Morris 2004

Finding Fibonacci-Keith Devlin 2019-07-09 A mathematician’s ten-year quest to tell Fibonacci’s story In 2000, Keith Devlin set out to research the life and legacy of the medieval mathematician Leonardo of Pisa, popularly known as Fibonacci, whose book Liber abbaci, or the “Book of Calculation,” introduced modern arithmetic to the Western world. Although most famous for the Fibonacci numbers—which, it so happens, he didn’t discover—Fibonacci’s greatest contribution was as an expositor of mathematical ideas at a level ordinary people could understand. Yet Fibonacci was forgotten after his death, and it was not until the 1960s that his true achievements were finally recognized. Drawing on the diary he kept of his quest, Devlin describes the false starts and disappointments, the unexpected turns, and the occasional lucky breaks he encountered in his search. Fibonacci helped to revive the West as the cradle of science, technology, and commerce, yet he vanished from the pages of history. This is Devlin’s search to find him.

Genius Denied-Jan Davidson 2007-11-01 With all the talk of failing schools these days, we forget that







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Identifying, Describing, and Developing Teachers Who Are Gifted and Talented-Van Sickle, Meta L. 2018-12-07 Much of the research about teachers focuses on “those who can’t/don’t/aren’t good” in the classroom. However, teachers who are gifted and talented exist, but there has been little attention to date on the characteristics and practices of such teachers in the classroom. While few, the examples of research on positive teacher attributes include work on the “expert,” “authentic,” and “creative,” as well as examples of research on eminent adults. Identifying, Describing, and Developing Teachers Who Are Gifted and Talented is an essential reference source that discusses behaviors and traits in teachers who are considered gifted and talented as well as case studies on the identification and preparation of teachers who fall into this category. Featuring research on topics such as creative innovation, emotional intelligence, and skill development, this book is ideally designed for educators, administrators, researchers, and academicians.

The Foundations of Mathematics-Michael John Bradley 2006-01-01 During the 16th and 17th centuries, mathematicians developed a wealth of new ideas but had not carefully employed accurate definitions, proofs, or procedures to document and implement them. However, in the early 19th century, mathematicians began to recognize the need to precisely define their terms, to logically prove even obvious principles, and to use rigorous methods of manipulation. The Foundations of Mathematics presents the lives and accomplishments of 10 mathematicians who lived between CE 1800 and 1900 and contributed to one or more of the four major initiatives that characterized the rapid growth of mathematics during the 19th century: the introduction of rigor, the investigation of the structure of mathematical systems, the development of new branches of mathematics, and the spread of mathematical activity throughout Europe. This readable new volume communicates the importance and impact of the work of the pioneers who redefined this area of study.

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