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Sources. Our Mathematical Universe: written by Max Tegmark and published on January 7, 2014, this book describes Tegmark's theory.; Further reading: Schmidhuber, J. (1997) "A Computer Scientist's View of Life, the Universe, and Everything" in C. Freksa, ed., Foundations of Computer Science: Potential - Theory - Cognition.Lecture Notes in Computer Science, Springer: p. 201-08.

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Recipient of the Mathematical Association of America's Beckenbach Book Prize in 2008! Leonhard Euler was one of the most prolific mathematicians that have ever lived. This book examines the huge scope of mathematical areas explored and developed by Euler, which includes number theory, combinatorics, geometry, complex variables and many more. The information known to Euler over 300 years ago is discussed, and many of his advances are reconstructed. Readers will be left in no doubt about the brilliance and pervasive influence of Euler's work.

Max Tegmark leads us on an astonishing journey through past, present and future, and through the physics, astronomy and mathematics that are the foundation of his work, most particularly his hypothesis that our physical reality is a mathematical structure and his theory of the ultimate multiverse. In a dazzling combination of both popular and groundbreaking science, he not only helps us grasp his often mind-boggling theories, but he also shares with us some of the often surprising triumphs and disappointments that have shaped his life as a scientist. Fascinating from first to last—this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians.

To many outsiders, mathematicians appear to think like computers, grimly grinding away with a strict formal logic and moving methodically--even algorithmically--from one black-and-white deduction to another. Yet mathematicians often describe their most important breakthroughs as creative, intuitive responses to ambiguity, contradiction, and paradox. A unique examination of this less-familiar aspect of mathematics, How Mathematicians Think reveals that mathematics is a profoundly creative activity and not just a body of formalized rules and results. Nontlogical qualities, William Byers shows, play an essential role in mathematics. Ambiguities, contradictions, and paradoxes can arise when ideas developed in different contexts come into contact. Uncertainties and conflicts do not impede but rather spur the development of mathematics. Creativity often means bringing apparently incompatible perspectives together as complementary aspects of a new, more subtle theory. The secret of mathematics is not to be found only in its logical structure. The creative dimensions of mathematical work have great implications for our notions of mathematical and scientific truth, and How Mathematicians Think provides a novel approach to many fundamental questions. Is mathematics objectively true? Is it discovered or invented? And is there such a thing as a "final" scientific theory? Ultimately, How Mathematicians Think shows that the nature of mathematical thinking can teach us a great deal about the human condition itself.

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.

El universo de las matemáticas ofrece unos perfiles incisivos de los grandes teoremas, enigmas, controversias y misterios irresueltos que han conformado el fascinante mundo de las matemáticas. Con extraordinaria claridad y talento, William Dunham nos lleva por un vivo viaje que escala las cimas de los logros matemáticos. En un período que abarca cinco mil años, Dunham explora temas matemáticos característicos, desde los primeros monumentos escritos de la aritmética hasta los fascinantes enigmas de las series infinitas y las características peculiares de los números irracionales. A lo largo del libro nos ofrece anécdotas sorprendentes y divertidas de la vida de los grandes matemáticos, lo mismo del extravagante e irreverente Bertrand Russell, que de los brillantes y pendenciosos hermanos Bernoulli o del genio intuitivo de Sofía Kovalevskaia.

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

Physical Laws of the Mathematical Universe: Who Are We? sets off from the first page on an arduous and ambitious journey to define and describe a comprehensive depiction of reality that embraces the rigors of physics, the elegance of mathematics, and the intricacies of human perception. Neeti Sinha brings to bear her extensive education and research as she pursues an explanation that unites these often disparate disciplines in service of a nuanced description of the wonders of the whole universe. In the course of its exploration of this topic, Physical Laws of the Mathematical Universe: Who Are We? unites insights from the fields of mathematics and physics in light of human perception to explain the contours of the universe and the origins of its parallel forms. The work also demonstrates how major scientific conundrums find their resolution when one adopts a holistic perspective. Finally, the author uncovers the profound foundations of human appreciation for truth and beauty in the aesthetics that bind together physics and mathematics. If you look at your life and the world and wonder about their true nature, then Physical Laws of the Mathematical Universe: Who Are We? will accompany you on a journey that may test the limits of your understandings of the universe while opening to your gaze vistas you previously had not imagined.

From the author of the national bestseller Innumeracy, a delightful exploration and explanation of mathematical concepts from algebra to zero in easily accessible alphabetical entries. "Paulos . . . does for mathematics what The Joy of Sex did for the boudoir. . . ."--Washington Post Book World. First time in paperback.

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