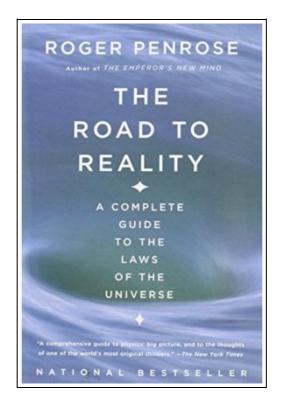
# The Road to Reality



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## Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

## THE ROAD TO REALITY



Condition: New. Publisher/Verlag: Vintage, London | A Complete Guide to the Laws of the Universe | Roger Penrose, one of the most accomplished scientists of our time, presents the only comprehensive and comprehensible account of the physics of the universe. From the very first attempts by the Greeks to grapple with the complexities of our known world to the latest application of infinity in physics, The Road to Reality carefully explores the movement of the smallest atomic particles and reaches into the vastness of intergalactic space. Here, Penrose examines the mathematical foundations of the physical universe, exposing the underlying beauty of physics and giving us one the most important works in modern science writing. | PrefaceAcknowledgementsNotationPrologue1 The roots of science1.1 The quest for the forces that shape the world1.2 Mathematical truth1.3 Is Plato's mathematical world 'real'?1.4 Three worlds and three deep mysteries1.5 The Good, the True, and the Beautiful An ancient theorem and a modern question 2.1 The Pythagorean theorem 2.2 Euclid & apos;s postulates 2.3 Similar-areas proof of the Pythagorean theorem2.4 Hyperbolic geometry: conformal picture2.5 Other representations of hyperbolic geometry2.6 Historical aspects of hyperbolic geometry2.7 Relation to physical space3 Kinds of number in the physical world3.1 A Pythagorean catastrophe?3.2 The real-number system3.3 Real numbers in the physical world3.4 Do natural numbers need the physical world73.5 Discrete numbers in the physical world4 Magical complex numbers4.1 The magic number 'i'4.2 Solving equations with complex numbers4.3 Convergence of power series4.4 Caspar Wessel's complex plane4.5 How to construct the Mandelbrot set5 Geometry of logarithms, powers, and roots5.1 Geometry of complex algebra5.2 The idea of the complex logarithm5.3 Multiple valuedness, natural logarithms5.4 Complex powers5.5 Some relations to modern particle physics6 Real-number calculus6.1 What makes an honest function?6.2 Slopes of functions6.3 Higher derivatives; C1-smooth functions6.4 The ' Eulerian ' notion of a function? 6.5 The rules of differentiation 6.6 Integration 7 Complex-number calculus 7.1 Complex smoothness;...



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