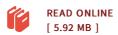# The Road to Reality: A Complete Guide to the Laws of the Universe

By Penrose, Roger

Vintage, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface Acknowledgements Notation Prologue 1 The roots of science 1.1 The quest for the forces that shape the world 1.2 Mathematical truth 1.3 Is Plato's mathematical world 'real'? 1.4 Three worlds and three deep mysteries 1.5 The Good, the True, and the Beautiful 2 An ancient theorem and a modern question 2.1 The Pythagorean theorem 2.2 Euclid's postulates 2.3 Similar-areas proof of the Pythagorean theorem 2.4 Hyperbolic geometry: conformal picture 2.5 Other representations of hyperbolic geometry 2.6 Historical aspects of hyperbolic geometry 2.7 Relation to physical space 3 Kinds of number in the physical world 3.1 A Pythagorean catastrophe? 3.2 The real-number system 3.3 Real numbers in the physical world 3.4 Do natural numbers need the physical world? 3.5 Discrete numbers in the physical world 4 Magical complex numbers 4.1 The magic number 'i' 4.2 Solving equations with complex numbers 4.3 Convergence of power series 4.4 Caspar Wessel's complex plane 4.5 How to construct the Mandelbrot set 5 Geometry of logarithms, powers, and roots 5.1 Geometry of complex algebra 5.2 The idea of the complex logarithm 5.3 Multiple valuedness, natural logarithms 5.4 Complex powers...

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