

Thinking Physics Understandable Practical Reality Lewis Carroll Epstein

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includes entries for maps and atlases

the metric helps to answer every scientific question about nonquantum features of spacetime surrounding a black hole every possible question about trajectories of light and satellites around the black hole as well as around more familiar centers of attraction such as earth and sun the metric for a rotating black hole may tell us about quasars the most powerful steady energy sources in the universe the black hole metric brings preliminary insights about the history and structure of the cosmos using the metric requires only algebra elementary differential calculus and a handful of integrals this modest mathematics opens the subject to the interested person and paves the way to a deeper study of general relativity for one who will discover new truth about this strange and beautiful universe our home book jacket

this collection of papers from educators around the world explores the state of the art in teaching physics marking the retirement of robert resnick from rpi a conference was held on teaching physics this book contains the complete papers from a conference marking the retirement of robert resnick from rip and offers a grand tour of the field

essays written by african american homeschoolers parents and students telling why and how they choose to take control of their own education

bucky fuller thought big wired magazine recently noted arthur c clarke thinks big but cliff pickover outdoes them both and now in his newest book cliff pickover outdoes even himself probing a mystery that has baffled mystics philosophers and scientists throughout history what is the nature of time in time a traveler s guide pickover takes readers to the forefront of science as he illuminates the most mysterious phenomenon in the universe time itself is time travel possible is time real does it flow in one direction only does it have a beginning and an end what is eternity these are questions that pickover tackles in this stimulating blend of chopin philosophy einstein and modern physics spiced with diverting side trips to such topics as the history of clocks the nature of free will and the reason gold glitters pickover includes numerous diagrams so readers have no trouble following along computer code that lets us write simulations for various aspects of time travel and an on going science fiction tale featuring quirky characters who yearn to travel back in time to hear chopin play in person by the time we finish this book we understand such seemingly arcane concepts as space time diagrams light cones cosmic moment lines transcendent infinite speeds lorentz transformations superluminal and ultraluminal motions ninkowskian space times godel universes closed timelike curves and tipler cylinders and most important we will understand that time travel need not be confined to myth science fiction hollywood fantasies or scientific speculation time travel we will realize is possible

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