

"Comprehensive, concise, and coherent, this is a marvelous summary of the essence of classical physics, somewhat reminiscent of the classic texts of Landau and Lifshitz, and an essential part of any physicist's toolkit.

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Chapter 2 : Ph Applications of Classical Physics

If you want your physics by the pound, Modern Classical Physics (MCP) is your book, and Nobel Laureate, Kip Thorne is your man. To over use a cliché, this pound, page tome, is a tour de force.

Thorne was born in Logan, Utah on June 1, 1940. Regarding his views on science and religion, Thorne has stated: I happen to not believe in God. Thorne returned to Caltech as an associate professor in 1971 and became a professor of theoretical physics in 1973, the William R. Professor in 1981, and the Feynman Professor of Theoretical Physics in 1984. He was an adjunct professor at the University of Utah from 1973 to 1976 and Andrew D. White Professor at Large at Cornell University from 1976 to 1981. Approximately 50 physicists have received Ph. D. In 1985, Thorne made some speculations on what the 21st century will find as the answers to the following questions: Can we observe the birth of the universe and its dark side using radiation made from space-time warpage, or so-called "gravitational waves"? Will 21st century technology reveal quantum behavior in the realm of human-size objects? His presentations on subjects such as black holes, gravitational radiation, relativity, time travel, and wormholes have been included in PBS shows in the U.S. Thorne and Linda Jean Peterson married in 1978. Their children are Kares Anne and Bret Carter, an architect. Thorne and Peterson divorced in 1983. Thorne and his second wife, Carolee Joyce Winstein, a professor of biokinesiology and physical therapy at USC, married in 1985. A significant aspect of his research is developing the mathematics necessary to analyze these objects. Caves, Thorne invented the back-action-evasion approach to quantum nondemolition measurements of the harmonic oscillators – a technique applicable both in gravitational wave detection and quantum optics. Hoop conjecture A cylindrical bundle of magnetic field lines While he was studying for his Ph.D. After several months wrestling with the problem, he proved that it was impossible for cylindrical magnetic field lines to implode. Thorne tried to explore the theoretical ridge between the two phenomena. He found out eventually that the gravitational force can overcome all interior pressure only when an object has been compressed in all directions. To express this realization, Thorne proposed his hoop conjecture, which describes an imploding star turning into a black hole when the critical circumference of the designed hoop can be placed around it and set into rotation. That is, any object of mass M around which a hoop of circumference $4\pi R_s$

Chapter 3 : Modern Classical Physics PDF

About the author Kip S. Thorne, co-winner of the Nobel Prize in physics, is the Feynman Professor Emeritus of Theoretical Physics at calendrieldelascience.com books include Gravitation and Black Holes and Time Warps.

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