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Sailing Into Cosmic Destinations: Notes on the Mechanics and Thermodynamics of Novel, Relativistic Sails Space Craft

By James M Essig

Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.The concepts for highly relativistic spacecraft presented in this book rely heavily on materials that have not yet been demonstrated. Thus, the reader is asked to keep an open mind while studying the contents presented herein. Readers of all sub-fields of theoretical and applied physics will appreciate that high level of mathematicalization and the specific computational case studies of plausible systems. Much effort has gone into addressing and acknowledging the numerous caveats for the proposed systems to function as conjectured. One of the themes of this book is the possibility of an effectively free lunch in terms of propulsion system energy acquisition. Accordingly, scenarios involving the capture of many forms of natural and artificial background energy are described as applicable to extremely relativistic vehicles having a small if not unitary starting mass-ratio. It is hoped that those who enjoy extreme and exotic scenarios of inertial or special relativistic spacecraft will enjoy this text and gain a deeper understanding of how the formulations of Special Relativity can help pave the way throughout the Milky Way Galaxy and further abroad....



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