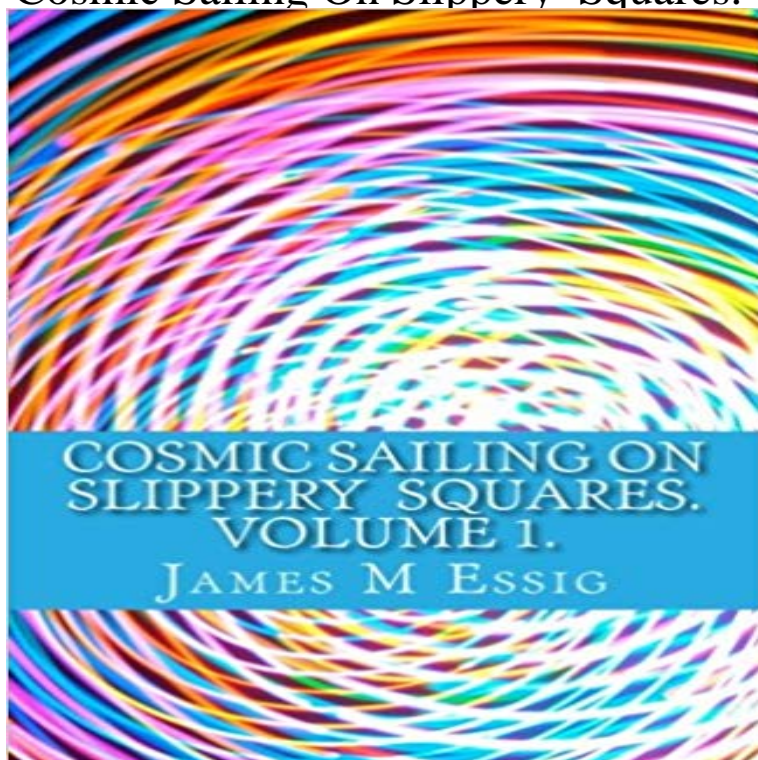


Cosmic Sailing On Slippery Squares. Volume 1.



This book is the first volume of a series on the subject of astrodynamically optimized light and matter sails. Integral and differential equations as a blend of analytic and numerical expressions are presented for which relativistic time dilation and energy gain, black-body radiation approximations, and relativistic aberration are modeled in combination. Sail orientations parallel to spacecraft velocity vectors enable optimized drag coefficients and reduced sail erosion at high gamma factors. Materials of sail composition range from current laboratory grade super-materials, to white dwarf degenerate style matter, neutroniums, quarkoniums, and the like.

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