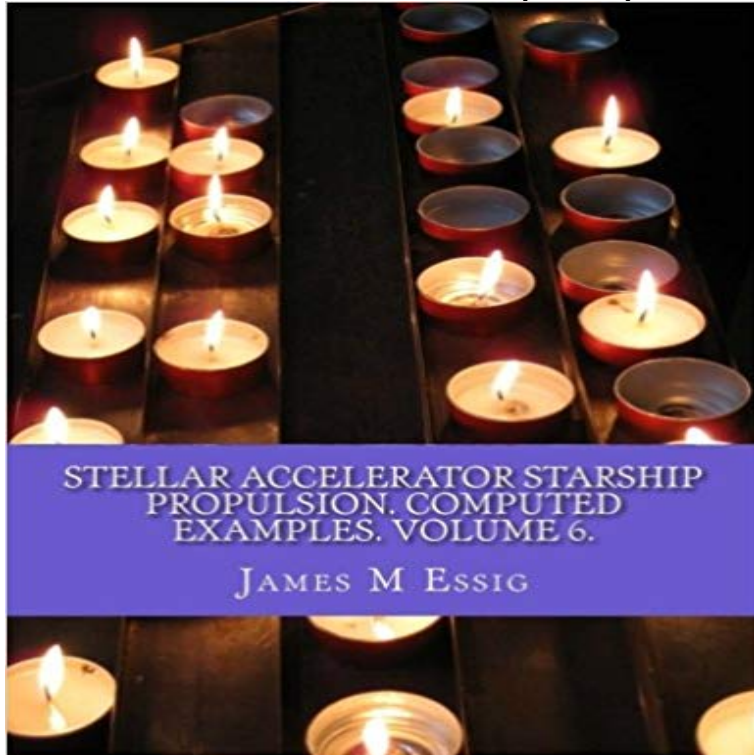


Stellar Accelerator Starship Propulsion. Computed Examples. Volume 6.



In this sixth volume of the series title, interesting and perhaps overlooked and underemphasized methods of using common red-giant stars such as Omicron Ceti to power relativistic spacecraft are proposed. Herein, the author presents scenarios for which spacecraft can be suitably accelerated around Omicron Ceti and similar stars to velocities commensurate with the enablement of human crew members to travel cosmic distances in space and forward in time. For much of the assertions made herein, simple high-school math is used along with some basic and primary formulations of Special Relativity. Methods of using negative electromagnetic refractive index pull-sails are explored along with pull-sail couplings to spacecraft via mechanical and/or electrodynamic means. Conjecture is further presented on g-force mitigation as experienced by the crew. Also included is a digression on bulk materials such as neutronium and quarkonium as such pertains to construction of suitably strong and refractory pull-sails. Regardless of the gamma factor achieved or the class of star employed, the stellar accelerator method may be deployed along with a relativistic Lorentz turning force to enable a spacecraft to undergo a stellar cyler motion to minimize thrust vectoring input energy. Additionally, relativistic rockets, electrical rockets, electrodynamic-hydrodynamic-plasma-drives, magnetic-plasma-bottle-propulsion, linear induction power, and a host of other modes can be operated alongside the pull-sail feature. Omicron Ceti is a rather common red-giant class star and thus implies a wealth of similar red giants for which power intake and reduced torque per value of gamma can be conducive to spacecraft acceleration using plausible supermaterials made out of common periodic table elements.

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