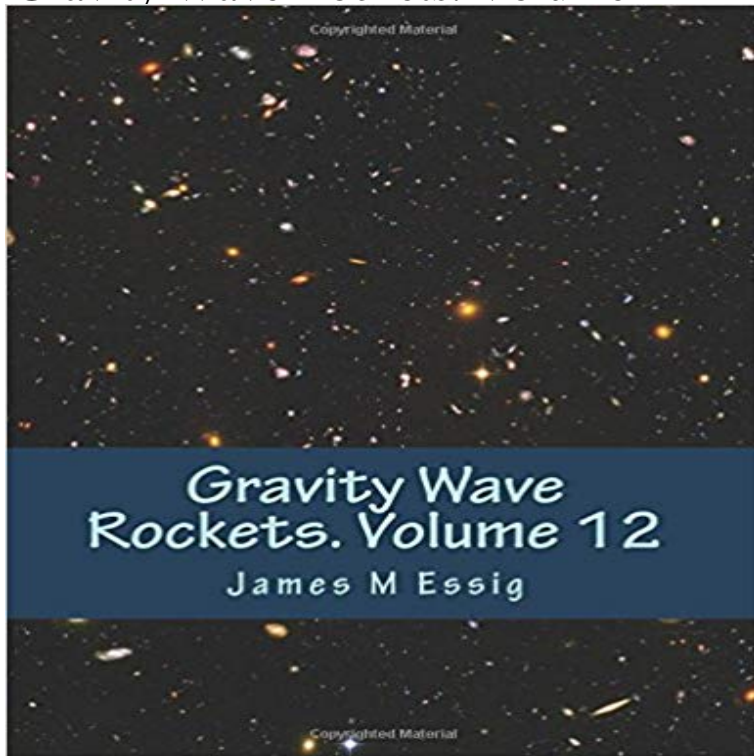


## Gravity Wave Rockets. Volume 12



We have all heard of rockets. All of us have seen the beautiful launches of the Saturn V rockets and later, the Space Shuttles. Weve see images of drones firing Hell-Fire missiles on a regular basis such as from Predator and Reaper unmanned drones. We even see rockets for celebration, which here in the States, is usually on July 4, beginning at about 9:30 PM. However, relatively few persons know the difference between an ion rocket and a chemical combustion rocket. Even fewer persons are aware of the concept of a fission rocket or a fusion rocket. Most folks will likely believe that a matter-antimatter rocket has something to do with Star Trek and Warp Drive when in actuality, such rockets are simply forms of reactionary propulsion that operate on analogous principles to the rockets we see on a daily basis such as in news reports of the ongoing conflicts in Middle East. Among physicists, relatively few will have taken the time to contemplate neutrino rockets, and even fewer will have gone the further step of contemplating gravitational wave or gravitational radiation rockets. Ah! Gravitational Rockets! A general relativistic form of good old fashioned rocketry! The latter is the subject of this book. A gravitational wave rocket would produce an exhaust stream equal in velocity to the speed of light. The radiated gravitational energy would carry away momentum and thus produce an exhaust stream that drives the space craft forward. Gravitational waves are really weird. They have not yet been directly detected. They theoretically should travel as precisely light speed. However, some theorists propose that gravitational waves travel ever so slightly faster than light, perhaps a vanishingly small fraction of  $C$  less than  $C$ .

Gravitational waves are produced by various configurations of rotating and/or oscillating matter, the details of which we explore later in this book. Assuming that

the gravitational waves could be reflected, the efficiency of the system would be equal to that of a photon rocket. Here we assume a calumniated gravitational wave exhaust plume.

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