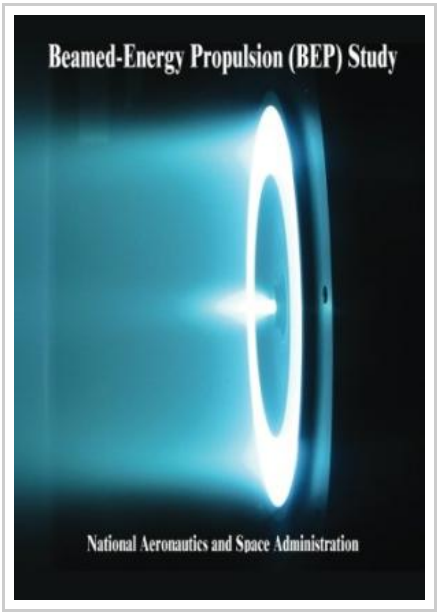


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Beamed-Energy Propulsion (Bep) Study (Paperback)

By National Aeronautics and Administration

Createspace, United States, 2014. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.The official scope of this study was (1) to review and analyze the state-of-art in beamed-energy propulsion (BEP) by identifying potential game-changing applications, (2) to formulate a roadmap of technology development, and (3) to identify key near-term technology demonstrations to rapidly advance elements of BEP technology to Technology Readiness Level (TRL). The two major areas of interest were launching payloads and space propulsion. More generally, the study was requested and structured to address basic mission feasibility. The attraction of BEP is the potential for high specific impulse (Isp) while removing the power generation mass. The rapid advancements in high-energy beamed-power systems and optics over the past 20 years warranted a fresh look at the technology. BEP could help meet the known needs of NASA and/or the Department of Defense (DOD), providing low-cost, rapid access to space for operationally responsive military systems, scientific payloads, and the commercialization of space. For launching payloads, the study concluded that using BEP to propel vehicles into space is technically feasible if a commitment to develop new technologies and large investments can be made...

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