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## Interplanetary Mission Design Handbook, Volume 1, Part 2: Earth to Mars Ballistic Mission Opportunities, 1990-2005 (Paperback)

By National Aeronautics and Administration

Createspace, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This handbook contains graphical data necessary for the preliminary design of ballistic missions to Mars. Contours of launch energy requirements, as well as many other launch and Mars arrival parameters, are presented in launch date/arrival date space for all launch opportunities from 1990 through 2005. In addition, an extensive text is included which explains mission design methods, from launch window development to Mars probe and orbiter arrival design, utilizing the graphical data in this volume as well as numerous equations relating various parameters. This is one of a planned series of mission design documents which will apply to all planets and some other bodies in the solar system. This publication is one of a series of volumes devoted to interplanetary trajectories of different types. Volume 1 deals with ballistic trajectories. The present publication is Part 2 and describes ballistic trajectories to Mars. Part 3 treated ballistic trajectories to Jupiter. Part 4 described ballistic trajectories to Saturn. Parts 1 and 5 will treat ballistic trajectories to Venus and Mars-to-Earth return trajectories, respectively.



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