



Mars Global Reference Atmospheric Model 2010 Version: Users Guide (Paperback)

By National Aeronautic Space Administration

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The Mars Global Reference Atmospheric Model (Mars-GRAM) is an engineering-level atmospheric model widely used for diverse mission applications. Applications include systems design, performance analysis, and operations planning for aerobraking, entry, descent and landing, and aerocapture. Mars-GRAM has been utilized during the aerobraking operations of Mars Global Surveyor (MGS),¹ Mars Odyssey (ODY), and Mars Reconnaissance Orbiter (MRO). Mars-GRAM has also been used in the prediction and validation of Mars Pathfinder hypersonic aerodynamics,² the aerothermodynamic and entry dynamics studies for Mars Polar Lander,³ the Mars Aerocapture System Study, as well as the Aerocapture Technology Assessment Group. Mars-GRAM versions⁴⁻⁸ prior to Mars-GRAM 2000 were based on ad hoc parameterizations to data observed by the Mariner and Viking missions. Mars-GRAM 2000,⁹ Mars-GRAM 2001, Mars-GRAM 2005, and the current version, Mars-GRAM 2010, are based on input data tables derived from output results from the NASA Ames Mars General Circulation Model (MGCM)^{10,11} and the University of Michigan Mars Thermospheric General Circulation Model (MTGCM).^{12,13} Section 1 provides an overview of Mars-GRAM 2010. Section 2 of this Technical Memorandum describes the MGCM and MTGCM data and how they...



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