



Space Physics Missions Handbook (Paperback)

By National Aeronautics and Administration

Createspace, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Space physics is, to a great extent, the study of naturally occurring plasmas. Approximately 99 of all the matter in the Universe exists in the form of plasmas of many different types; including the partially-ionized, relatively cool plasmas of planetary ionospheres, the million degree plasmas found in the solar corona, the solar-wind plasmas, the planetary magnetospheres, and the highly relativistic galactic cosmic-ray plasma. Not only do these plasmas have very different physical scales, but each has phenomena occurring on a wide range of scales within it. The challenge for space physics is to arrive at an integrated view that relates large-scale and small-scale plasma phenomena by drawing upon concepts from the frontier of modern scientific research. In particular the Sun and the heliosphere--the nearest star and its sphere of influence--harbor a large number of fundamental questions that are of consequence not only for the solar system, but also for astrophysics as a whole. Mankind now has the intellectual curiosity and technical capability to investigate the many basic and interconnected questions regarding the internal structure of the Sun, the heating of the corona,...



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