



Deep Space Craft: An Overview of Interplanetary Flight (Springer Praxis Books)

By Dave Doody

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Deep Space Craft opens the door to interplanetary flight. It looks at this world from the vantage point of real operations on a specific mission, and follows a natural trail from the day-to-day working of this particular spacecraft, through the functioning of all spacecraft to the collaboration of the various disciplines to produce the results for which a spacecraft is designed. These results are of course mostly of a scientific nature, although a small number of interplanetary missions are also flown primarily to test and prove new engineering techniques. The author shows how, in order to make sense of all the scientific data coming back to Earth, the need for experiments and instrumentation arises, and follows the design and construction of the instruments through to their placement and testing on a spacecraft prior to launch. Examples are given of the interaction between an instrument's science team and the mission's flight team to plan and specify observations, gather and analyze data in flight, and finally present the results and discoveries to the scientific community.

This highly focused, insider's guide to interplanetary space exploration uses many examples of previous and current endeavors. It will enable the reader to research almost any topic related to spacecraft and to seek the latest scientific findings, the newest emerging technologies, or the current status of a favorite flight. In order to provide easy paths from the general to the specific, the text constantly refers to the Appendices. Within the main text, the intent is general familiarization and categorization of spacecraft and instruments at a high level, to provide a mental framework to place in context and understand any spacecraft and any instrument encountered in the reader's experience.

Appendix A gives illustrated descriptions of many interplanetary spacecraft, some earth-orbiters and ground facilities to reinforce the classification framework. Appendix B contains illustrated detailed descriptions of a dozen scientific instruments, including some ground-breaking engineering appliances that have either already been in operation or are poised for flight. Each instrument's range of sensitivity in wavelengths of light, etc, and its physical principle(s) of operation is described. Appendix C has a few annotated illustrations to clarify the nomenclature of regions and structures in the solar

system and the planets' ring systems, and places the solar system in context with the local interstellar environment.

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Editorial Review

Review

From the reviews: "This book by Doody ... covers many topics related to spacecraft for interplanetary missions. ... The appendixes contain valuable and interesting databases of existing typical spacecraft and scientific instruments. The material in this work will be of interest to undergraduate students in aerospace engineering, engineering physics, and applied physics, as well as practitioners interested in an overview of deep space missions and scientific instruments for space exploration. Summing Up: Recommended. Lower- and upper-division undergraduates, professionals/practitioners, and general readers." (Y. J. Crispin, Choice, Vol. 47 (3), November, 2009)

From the Back Cover

This book opens the door to the intriguing world of interplanetary flight. It provides a highly focused, insider's view of current and recent interplanetary space exploration, describing all the different aspects of the many individual space-exploring machines that operate throughout our Solar System. The book:

- Illuminates the 'science pipeline', enabling readers to follow any specific interplanetary mission(s) and access the science datastream;
- Covers concisely the space-related fields of specialization and how they interrelate in interplanetary flight;
- Provides an insider's guide of what is involved in the conduct of robotic interplanetary mission;
- Gives a snapshot of what has been going on in interplanetary flight in the last 25 years of the Space age.

Deep Space Craft shows how, in order to make sense of all the scientific data coming back to Earth, the need for experiments and instrumentation arises, and follows the design and construction of the instruments through to their placement and testing on a spacecraft prior to launch. Examples are given of the interaction between an instrument's science team and the mission's flight team to plan and specify observations, gather and analyze data in flight, and finally present the results and discoveries to the scientific community.

Users Review

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