

# Spacecraft Attitude Determination and Control

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### SPACECRAFT ATTITUDE DETERMINATION AND CONTROL



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Book Condition: New. Publisher/Verlag: Springer Netherlands | Roger D. Werking Head, Attitude Determination and Control Section National Aeronautics and Space Administration/ Goddard Space Flight Center Extensive work has been done for many years in the areas of attitude determination, attitude prediction, and attitude control. During this time, it has been difficult to obtain reference material that provided a comprehensive overview of attitude support activities. This lack of reference material has made it difficult for those not intimately involved in attitude functions to become acquainted with the ideas and activities which are essential to understanding the various aspects of spacecraft attitude support. As a result, I felt the need for a document which could be used by a variety of persons to obtain an understanding of the work which has been done in support of spacecraft attitude objectives. It is believed that this book, prepared by the Computer Sciences Corporation under the able direction of Dr. James Wertz, provides this type of reference. This book can serve as a reference for individuals involved in mission planning, attitude determination, and attitude dynamics; an introductory textbook for stu dents and professionals starting in this field; an information source for experimen ters or others involved in spacecraft-related work who need information on spacecraft orientation and how it is determined, but who have neither the time nor the resources to pursue the varied literature on this subject; and a tool for encouraging those who could expand this discipline to do so, because much remains to be done to satisfy future needs. | 'l-Background.- 1. Introduction.- 1.1 Representative Mission Profile.- 1.2 Representative Examples of Attitude Determination and Control.- 1.3 Methods of Attitude Determination and Control.- 1.4 Time Measurements.- 2. Attitude Geometry.- 2.1 The Spacecraft-Centered Celestial Sphere.- 2.2 Coordinate Systems.- 2.3 Elementary Spherical Geometry.- 3. Summary of...

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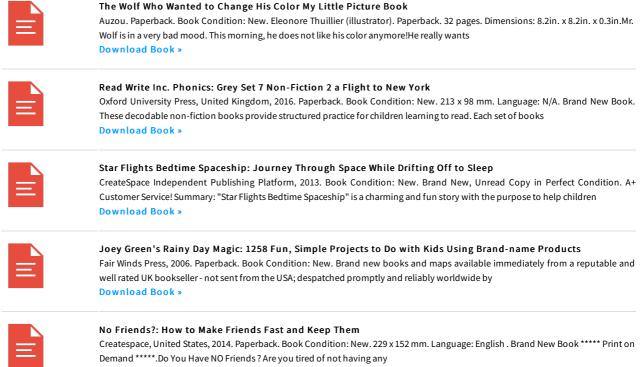
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