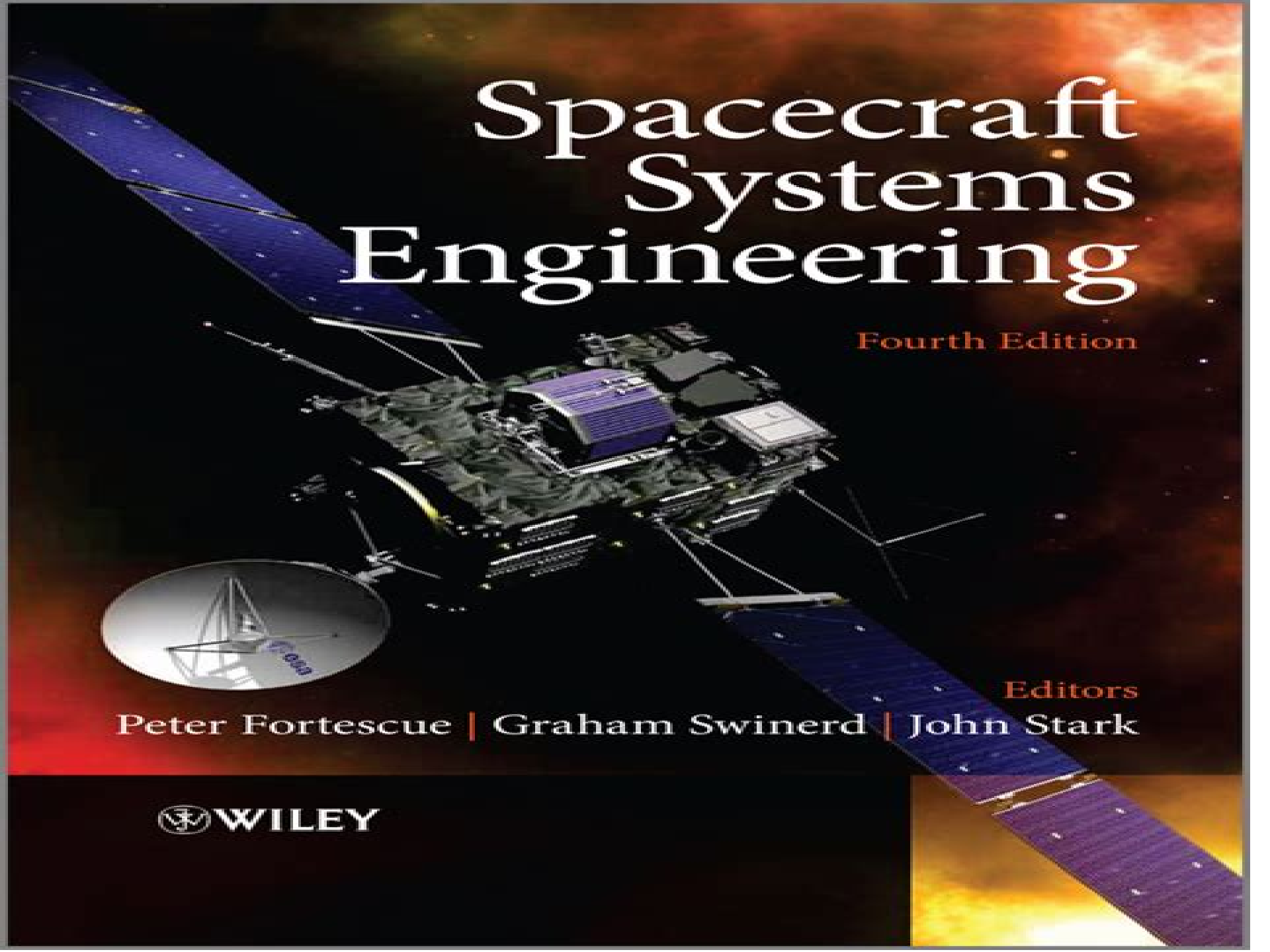


A detailed illustration of a satellite in space. The satellite has a central body with various instruments and a large, circular dish antenna. Two long, blue solar panel arrays extend from the sides. The background is a dramatic space scene with a bright, orange and yellow sun or star on the right, casting a glow over the scene, and a dark, starry sky on the left.

Spacecraft Systems Engineering

Fourth Edition

Editors

Peter Fortescue | Graham Swinerd | John Stark

 WILEY

Spacecraft Systems Engineering

Peter Fortescue, Graham Swinerd, John Stark



Spacecraft Systems Engineering:

Spacecraft Systems Engineering Peter Fortescue, Graham Swinerd, John Stark, 2011-08-24 This fourth edition of the bestselling Spacecraft Systems Engineering title provides the reader with comprehensive coverage of the design of spacecraft and the implementation of space missions across a wide spectrum of space applications and space science The text has been thoroughly revised and updated with each chapter authored by a recognized expert in the field Three chapters Ground Segment Product Assurance and Spacecraft System Engineering have been rewritten and the topic of Assembly Integration and Verification has been introduced as a new chapter filling a gap in previous editions This edition addresses front end system level issues such as environment mission analysis and system engineering but also progresses to a detailed examination of subsystem elements which represents the core of spacecraft design This includes mechanical electrical and thermal aspects as well as propulsion and control This quantitative treatment is supplemented by an emphasis on the interactions between elements which deeply influences the process of spacecraft design Adopted on courses worldwide Spacecraft Systems Engineering is already widely respected by students researchers and practising engineers in the space engineering sector It provides a valuable resource for practitioners in a wide spectrum of disciplines including system and subsystem engineers spacecraft equipment designers spacecraft operators space scientists and those involved in related sectors such as space insurance In summary this is an outstanding resource for aerospace engineering students and all those involved in the technical aspects of design and engineering in the space sector

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operational modes are of similar importance On the whole risk is reduced significantly and the satellite can be produced in a considerably more cost efficient way with higher quality and in shorter periods of time Therefore Simulating Spacecraft Systems the title of the present book is an important domain of modern system engineering which meanwhile has successfully established a position in many other sectors of industry and research too Aerospace Project Management Handbook M. Ann Garrison Darrin, Patrick A. Stadter, 2017-05-22 The Aerospace Project Management Handbook focuses on space systems exploring intricacies rarely seen in land based projects These range from additional compliance requirements from Earned Value Management requirements and regulations ESA NASA FAA to criticality and risk factors for systems where repair is impossible Aerospace project management has become a pathway for success in harsh space environments as the Handbook demonstrates With chapters written by experts this comprehensive book offers a step by step approach emphasizing the applied techniques and tools and is a prime resource for program managers technical leads systems engineers and principle payload leads **ESSA Science and Engineering** United States. Environmental Science Services Administration, 1970 Report of the Commission to Assess United States National Security Space Management and Organization , 2001 The Commission was directed to assess the organization and management of space activities in support of U S national security *Report of the Commission to Assess United States National Security Space Management and Organization* United States. Congress. Senate. Committee on Armed Services. Subcommittee on Strategic, 2002

Spacecraft Systems Engineering Book Review: Unveiling the Power of Words

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