



Cost-Effective Space Mission Operations (Space Technology)

By Gael F Squibb, Daryl G Boden, Wiley J Larson

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Cost-Effective Space Mission Operations, Second Edition describes the relationship between mission operations and the other elements of the space mission as well as specific operations tasks. This book defines a process that helps the mission operations manager translate mission objectives and requirements into a viable mission operations concept. The mission operations manager must develop this operations concept early enough, during concept exploration, so that the project manager can trade the future cost of operations against current development costs.

Written for professionals and students involved in systems engineering and operations in space, this book is valuable for program managers, mission operations managers, spacecraft engineers and designers, project scientists and operators. Cost-Effective Space Mission Operations includes detailed descriptions of thirteen mission operations functions, provides a process for developing a mission operations concept, and describes a model for evaluating the cost and complexity of an operations system. The book also covers how to conduct routine, launch and early-orbit, and special operations, as well as how to operate interplanetary, international, microsatellite, and crewed missions.

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