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You should be able to define the mission in sufficient detail to identify principal drivers and make a preliminary assessment of overan performance, size, cost, and risk.Space Mission Analysis and Design \(Book\) | OSTI.GOVSpace Mission Analysis and Design - Google Books. The second edition of Space Mission Analysis and Design continues the tradition of emphasizing the process of mission design established by the...Space Mission Analysis and Design - Google BooksOverview. This famous and practical handbook for Space Mission Engineering draws on leading aerospace experts to carry readers through mission design, from orbit selection to ground ops. SMAD III updates the technology, provides greater emphasis on small spacecraft design and the cost-reduction process, and includes more detail on multi-satellite manufacturing, space computers, payload design and autonomous systems.Space Mission Analysis and Design / Edition 3 by J.R. ...Space Mission Analysis and Design, 3 rd edition. 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Abstract. The goal of this second edition is siniflar to the first: to allow you to begin with a blank sheet of paper" and design a space mission to meet a set of broad, often poorly defined, objectives. You should be able to define the mission in sufficient detail to identify principal drivers and make a preliminary assessment of overan performance, size, cost, and risk.

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[Basic Steps in Designing a Space Mission](#)

The original Space Mission Analysis and Design (SMAD) Course has been taught by Dr. James Wertz, the co-editor and principal author of the course book, for more than 15 years. The new volume Space Mission Engineering: The New SMAD, has been published and the associated course captures what is new in space mission engineering.

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The Space Mission Analysis and Design (SMAD) Process consists of the following steps: Define Objectives ¾Define broad objectives and constraints ¾Estimate quantitative mission needs and requirements Characterize the Mission ¾Define alternative mission concepts ¾Define alternative mission architectures ¾Identify system drivers for each ¾Characterize mission concepts and architectures

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General Mission Analysis Tool (GMAT) The GMAT is a platform for independent trajectory optimization. It is a design system for modeling and optimizing spacecraft trajectories in flight regimes for low Earth orbit, lunar applications, interplanetary trajectories, and other deep space missions. Debris Assessment Software (DAS)

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