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Reducing Space Mission Cost

James R. Wertz and Wiley J. Larson, editors

Errata as of March 1, 1999

The following errata are provided to keep this volume as useful as possible. We would appreciate any other errors being reported to: Donna Klungle, Microcosm, Inc., 2377 Crenshaw Blvd., Suite 350, Torrance, CA 90501, Phone: (310) 320-0555, FAX: (310) 320-0252 or E-mail: bookproject@smad.com.

Page	First Printing Errata
271	Table 8-4, Pointing Knowledge (deg), 3rd column equation: "xln(x)" should read "ln(x)."
332	Table 10-12 SMAD reference should read Table 2-8 and Table 10-13 SMAD reference should read Table 3-1.

Reducing Space Mission Cost is the first complete treatment of the technology, process, and problems in the most critical area of modern spaceflight. The demand to reduce cost is unrelenting. This pioneering book addresses all aspects of this problem, including: technology and processes for reducing cost; cost reduction in mission engineering, spacecraft design, Reducing Space Mission Cost is the first complete treatment of the technology, process, and problems in the most critical area of modern spaceflight. The demand to reduce cost is unrelenting. This book shows that reducing space mission cost, without reducing reliability, is as possible as it is important for the future of space exploration. ...more. Get A Copy. Amazon.

Reducing Space Mission Cost is the first complete treatment of the technology, process, and problems in the most critical area of modern spaceflight. The demand to reduce cost is unrelenting. This pioneering book addresses all aspects of this problem, including: technology and processes for reducing cost; cost reduction in mission engineering, spacecraft design, manufacture, launch, and operations; implementation methods and problems; the price of reducing cost; 10 detailed case studies of what works in practice in Science missions, Interplanetary probes, Communications spacecraft, and Test an Reducing mission operations costs through spacecraft autonomy: the near earth asteroid rendezvous (near) experience. S. C. Lee, A. G. Santo. Journal: Journal of Reducing Space Mission Cost. Year: 1998.Â Market-based approaches for controlling space mission costs: the Cassini Resource Exchange. Randii R. Wessen, David Porter. Journal: Journal of Reducing Space Mission Cost. Year: 1998. @inproceedings{Wertz1996ReducingSM, title={Reducing space mission cost}, author={J. Wertz and Wiley J. Larson}, year={1996} }. J. Wertz, Wiley J. Larson. Published 1996. Engineering. Preface. Part I: Process Changes to Reduce Cost. 1. Introduction. 2. Process Changes to Reduce Cost. 3. Technology for Reduced Cost Missions. 4. Reducing Launch Cost. 5. Reducing Spacecraft Cost. 6. Reducing Mission Operations Cost. 7. Design-to-Cost for Space Missions. 8. Cost Modelling. 9. Reliability Considerations. 10. Implementation Strategies and Problems. Part II: Case Studies. 11. Science Missions. 12. Int

Asking engineers to reduce space mission cost without making the cost known is like saying that we would like you to reduce the cost of manufacturing a car but we're not going to tell you what it actually costs to build a car or the cost breakdown among the various elements. Nonetheless, it is extremely difficult to get mission cost data made public. (The Microcosm/USC Reinventing Space Project is engaged in a program to quantify the extent of the cost reduction.) Irrespective of the specific processes and rules, there are a number of inherent economic advantages to replacing a large satellite having, for example, a 15-year life with a set of smaller satellites, presumably having shorter lives.

Reducing Space Mission Cost, Wertz and Larson International Reference Guide to Space Launch Systems, Isakowitz, AIAA Janes Space Directory Cost Models. Aerospace Corporation Small Satellite Cost Model (SSCM). Air Force Unmanned Spacecraft Cost Model (USCM) NASA Goddard Multivariable Instrument Cost Model (MICM) NASA World Wide Web sites.

2) Analogous Estimating Can be applied at any level of design Inflexible for trade studies. 3) Parametric Estimation Cost Estimation Relationships (CERs) Best for trade studies during the Conceptual Design Phase.

Reducing Space Mission Cost, Larson and Wertz. Graduate Student Labor Rates. Because low cost reduced cost and cost-effectiveness are relative terms papers are encouraged on the metrics by which cost and cost-effectiveness should be evaluated. Because cost is the key characteristic of all papers in the Journal and is critical to establishing a contribution as truly low cost or reduced cost the presentation of actual or projected costs and cost savings is strongly encouraged.

A major goal of the Journal of Reducing Space Mission Cost is to bring scholarly professional research norms and values to this critical problem of space exploration where conversations and reports are frequently dominated by hearsay and unsubstantiated claims. Reducing Space Mission Cost is the first complete treatment of the technology, process, and problems in the most critical area of modern spaceflight. The demand to reduce cost is unrelenting. This pioneering book addresses all aspects of this problem, including: technology and processes for reducing cost; cost reduction in mission engineering, spacecraft design, manufacture, launch, and operations; implementation methods and problems; the price of reducing cost; 10 detailed case studies of what works in practice in Science missions, Interplanetary probes, Communications spacecraft, and Test an Reducing Space Mission Cost is the first complete treatment of the technology, process, and problems in the most critical areas of modern spaceflight. The demand to reduce cost is unrelenting. This pioneering book addresses all aspects of this problem, including: Technology and processes for reducing cost Cost reduction in mission engineering, spacecraft design, manufacture, launch, and operations Implementation methods and problems The price of reducing Read Full Overview.