

Space Mission Analysis And Design Third Edition

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What's the Problem?
Space Mission Analysis and Design
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Space Mission Analysis and Design
Workbook
Hermes Mission Analysis and Timeline Engineering
Proceedings of the International Astronautical Congress
ELS Mission Analysis and AOCS
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Techniques and Procedures for Conducting Mission Analysis for Stability and Support Operations
Report on the Mission in Korea of the Presbyterian Board of Foreign Missions
Home Mission Monthly
NASA SP. Mission analysis presentation system (MAPS) : final report
Proceedings of the Church Missionary Society for Africa and the East...
SMAD III
AIAA/AHS/ASEE Aircraft Design, Systems and Operations Conference
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the present impetus to drive down the overall cost of space missions is leading to ever increasing demands for more efficient design techniques over a wide range of interplanetary missions and the methods now being utilised to do this are described in this timely and authoritative work

the goal of this book is 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 overall performance size cost and risk the emphasis of the book is on low earth orbit unmanned spacecraft however we hope that the principles are broad enough to be applicable to other missions as well we intend the book to be a practical guide rather than a theoretical treatise as much as possible we have provided rules of thumb empirical formulas and design algorithms based on past experience we assume that the reader has a general knowledge of physics math and basic engineering but is not necessarily familiar with any aspect of space technology this book was written by a group of senior engineers with over 800 years of collective space experience it reflects the insight gained from this practical experience and suggests how things might be done better in the future from time to time the views of authors and editors conflict as must necessarily occur given the broad diversity of experience we believe it is important to reflect this diversity rather than suppress the opinions of individual authors

the purpose of this monograph is to answer the research question does the current process for executing mission analysis give commanders the information they need to develop timely relevant and constructive commander s intent and commander s guidance this paper focused on the first two aspects of battle command visualization and description there are problems with the doctrinal mission analysis process that hinders commanders and their staffs in visualizing and describing an operation the over arching problem occurring during execution of the current mission analysis process is that staffs are not giving commanders what they need to complete their required deliverables at the conclusion of the mission analysis brief timely relevant and constructive initial commander s intent and commander s planning guidance in its current form the mission analysis process fails to address three fundamental problems during the execution of mission analysis first it does not take into account the lack of sufficient relevant experience of most staff members to intuitively see the relevant conclusions from the information gathered by the process second it does not adequately describe the complex nature of the commander and staff relationship and how the staff uses each step of the mission analysis process to assist the commander lastly the mission analysis process does not assist staffs to present the information gathered from the process in a manner that properly frames the problem and relates proper context to the commander in order to facilitate the development of his intent and guidance although solving the

problem of inexperience is beyond the scope of this paper the proposal does recommend several methods commanders and staffs can use to mitigate for lack of relevant experience as for the other two problems the mission analysis construct is good but not complete the current doctrine for mission analysis is incomplete in four areas it fails to fully convey understanding to staffs as to what mission analysis is designed to do it does not adequately explain how to frame a problem for a commander and staff in order to give greater context to situational understanding it does not adequately discuss the dynamics of the mission analysis process in interaction with various commander personalities and it does not adequately suggest how to assist a commander in getting information before mission analysis while he is developing his intent and guidance by understanding how a commander makes decisions in naturalistic environments a staff can be more efficient in finding and presenting the type of information he needs in order to complete his pattern recognition adequately framing the problem through context requires describing the purpose of the operation over time in relation to space and resources the future fm 5 0 should describe the dynamics of commander staff interaction and their impact on mission analysis the staff should understand that they must adapt to the commander and not the other way around the staff must discover how their commander expresses himself receives information and interprets information the future fm 5 0 should describe the nature and need for commander staff collaborative planning the doctrine should address the benefits of information sharing between the commander and staff before the mission analysis brief this paper has not only identified problems with the current doctrinal process but it has provided solutions to mitigate them if the proposal of this paper is implemented in the future fm 5 0 army planning and orders production the u s army could greatly improve the effectiveness of the mission analysis process and improve shared battlefield visualization and description by commanders and their staffs

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