

AFWAL-TR-86-3091

# MISSILE DATCOM

## VOLUME I - FINAL REPORT

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## VOLUME II - USER'S MANUAL

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# Missile Datcom Manual

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*Missile Datcom* Steven R. Vukelich, Stan Stoy, Marvin Moore, 1988 The computer code is capable of addressing a wide variety of conventional missile designs. For the purposes of this document a conventional missile is one which is comprised of the following: An axisymmetric or elliptically shaped body, One to four fin sets located along the body between the nose and base. Each fin set can be comprised of one to eight identical panels attached around the body at a common longitudinal position and An airbreathing propulsion system. To minimize the quantity of input data required, commonly used values for many inputs are assumed as defaults. However all program defaults can be over ridden by the user in order to more accurately model the configuration of interest.

**Missile Datcom, User's Manual** Keith A. Burns, Kenneth J. Deters, Stan L. Stoy, Steven R. Vukelich, William B. Blake, McDonnell Douglas Astronautics Company-St. Louis, Wright

Laboratory (Wright-Patterson Air Force Base, Ohio),1993    Missile Datcom William B. Blake,1998-02-01 THIS REPORT IS A USER S MANUAL FOR THE 1997 FORTRAN 90 REVISION OF THE MISSILE DATCOM COMPUTER PROGRAM THIS SUPERSEDES WL TR 93 3043 In missile preliminary design it is necessary to quickly and economically estimate the aerodynamics of a wide variety of missile configuration designs Since the ultimate shape and aerodynamic performance are so dependent upon the subsystems utilized such as payload size propulsion system selection and launch mechanism the designer must be capable of predicting a wide variety of configurations accurately The fundamental purpose of Missile Datcom is to provide an aerodynamic design tool which has the predictive accuracy suitable for preliminary design and the capability for the user to easily substitute methods to fit specific applications    **Modeling and Simulation of Aerospace**

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### **Table of Contents Missile Datcom Manual**

1. Understanding the eBook Missile Datcom Manual
  - The Rise of Digital Reading Missile Datcom Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Missile Datcom Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Missile Datcom Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Missile Datcom Manual
  - Personalized Recommendations

- Missile Datcom Manual User Reviews and Ratings
  - Missile Datcom Manual and Bestseller Lists
5. Accessing Missile Datcom Manual Free and Paid eBooks
- Missile Datcom Manual Public Domain eBooks
  - Missile Datcom Manual eBook Subscription Services
  - Missile Datcom Manual Budget-Friendly Options
6. Navigating Missile Datcom Manual eBook Formats
- ePUB, PDF, MOBI, and More
  - Missile Datcom Manual Compatibility with Devices
  - Missile Datcom Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Missile Datcom Manual
  - Highlighting and Note-Taking Missile Datcom Manual
  - Interactive Elements Missile Datcom Manual
8. Staying Engaged with Missile Datcom Manual
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Missile Datcom Manual
9. Balancing eBooks and Physical Books Missile Datcom Manual
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Missile Datcom Manual
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Missile Datcom Manual
- Setting Reading Goals Missile Datcom Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Missile Datcom Manual
- Fact-Checking eBook Content of Missile Datcom Manual

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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