

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

**Damien Tromeur-Dervout, Gunther  
Brenner, David R. Emerson, Jocelyne  
Erhel**

## **Missile Datcom Manual:**

Missile Datcom User's Manual William B. Blake, 1998 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 Missile Datcom Kevin D. Bruns, Marvin E. Moore, Stan L. Stoy, Steven R. Vukelich, 1991 *Missile Datcom, User's Manual -- Revision 6/93* Keith A. Burns, Kenneth J. Deters, Stan L. Stoy, Steven R. Vukelich, William B. Blake, 1993 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 *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 *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 overridden 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. User's Manual - Rev 4/91** Kevin D. Bruns,Marvin E. Moore,Stan L. Stoy,Steven R. Vukelich,William B. Blake,MCDONNELL DOUGLAS MISSILE SYSTEMS CO STLOUIS MO.,1991 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 used 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      *Scientific and Technical Aerospace Reports* ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      **Development Feasibility of Missile Datcom** Steven R. Vukelich,1981 This report summarizes the methods available to predict the aerodynamic static dynamic and control characteristics of missiles The methods selected for Missile Datcom development were based upon a criteria which included ease of use accuracy utility over a range of flight conditions and cost effective in their use This report describes the methodology appropriate for the missile designer An outline of a Missile Datcom handbook is proposed an automated version is also recommended for development Those areas presently lacking suitable methodologies are also highlighted Author      *Technical Reports Awareness Circular : TRAC.* ,1989-08      **Modeling and Simulation of Aerospace Vehicle Dynamics** Peter H. Zipfel,2000 A textbook for an advanced undergraduate course in which Zipfel aerospace engineering U of Florida introduces the fundamentals of an approach to or step in design that has become a field in and of itself The first part assumes an introductory course in dynamics and the second some specialized knowledge in subsystem technologies Practicing engineers in the aerospace industry he suggests should be able to cover the material without a tutor Rather than include a disk he has made supplementary material available on the Internet Annotation copyrighted by Book News Inc Portland OR      *Ballistics* Charles Osheku,2019-06-05 The edited volume Ballistics is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of engineered mechanics The book comprises single chapters authored by various researchers and edited by an expert from the respective research area Each chapter is complete in itself but united under a common research study topic This publication aims to provide a thorough overview of the latest research efforts by international authors on engineered mechanics and opens new possible research paths for further novel developments      **34th Aerospace Sciences Meeting & Exhibit** ,1996      [35th Aerospace Sciences Meeting & Exhibit](#) ,1997      [Ballistics 2011](#) Ernest Baker,Douglas Templeton,2011-09 Includes papers that were first presented at a September 2011 conference organized by the National Defense Industrial Association and the International Ballistics Society This title includes a CD ROM that displays figures and illustrations in articles in full color along with a title

screen and main menu screen      Benefits of Air Launching Space Vehicles Christopher Aron Noel,2004      **New Results in Numerical and Experimental Fluid Mechanics VIII** Andreas Dillmann,Gerd Heller,Hans-Peter Kreplin,Wolfgang Nitsche,Inken Peltzer,2012-12-27 This volume contains the contributions to the 17th Symposium of STAB German Aerospace Aerodynamics Association STAB includes German scientists and engineers from universities research establishments and industry doing research and project work in numerical and experimental fluid mechanics and aerodynamics mainly for aerospace but also for other applications Many of the contributions collected in this book present results from national and European Community sponsored projects This volume gives a broad overview of the ongoing work in this field in Germany and spans a wide range of topics airplane aerodynamics multidisciplinary optimization and new configurations hypersonic flows and aerothermodynamics flow control drag reduction and laminar flow control rotorcraft aerodynamics aeroelasticity and structural dynamics numerical simulation experimental simulation and test techniques aeroacoustics as well as the new fields of biomedical flows convective flows aerodynamics and acoustics of high speed trains      Parallel Computational Fluid Dynamics 2008 Damien Tromeur-Dervout,Gunther Brenner,David R. Emerson,Jocelyne Erhel,2010-09-21 This book collects the proceedings of the Parallel Computational Fluid Dynamics 2008 conference held in Lyon France Contributed papers by over 40 researchers representing the state of the art in parallel CFD and architecture from Asia Europe and North America examine major developments in 1 block structured grid and boundary methods to simulate flows over moving bodies 2 specific methods for optimization in Aerodynamics Design 3 innovative parallel algorithms and numerical solvers such as scalable algebraic multilevel preconditioners and the acceleration of iterative solutions 4 software frameworks and component architectures for parallelism 5 large scale computing and parallel efficiencies in the industrial context 6 lattice Boltzmann and SPH methods and 7 applications in the environment biofluids and nuclear engineering      **Government Reports Announcements & Index** ,1991-11      **Tactical Missile Aerodynamics** Michael J. Hemsch,Jack Norman Nielsen,1986

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