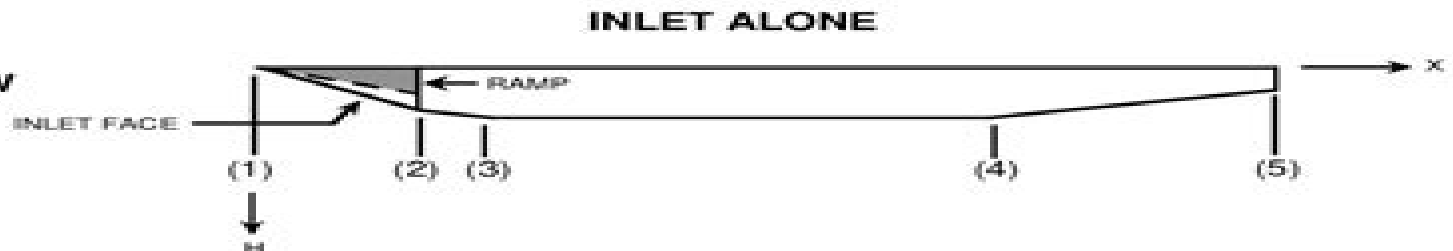


**INPUT INLET LONGITUDINAL COORDINATE (X), HEIGHT (H),
AND WIDTH (W) AT EACH STATION**

STATION	INLET POSITION
(1)	LEADING EDGE ($X(1)$ & $H(1) = 0$)
(2)	COWL LIP LEADING EDGE
(3)	MIDBODY START
(4)	BOATTAIL START
(5)	BOATTAIL END

FRONT VIEW



NOTES:

- INLET ROLL ORIENTATION IS SAME CONVENTION AS FIN ROLL ORIENTATION.
- RAMP IS THE EXTERNAL COMPRESSION RAMP ANGLE (SHOWN SHADED IN THE SIDE VIEW)
- HEIGHT OF THE DIVERTER IS SPECIFIED AT THE DIVERTER LEADING EDGE
- THE DIVERTER WIDTH IS EQUAL TO THE INLET WIDTH AT LDIV
- IF INLET IS COVERED (COVER=.TRUE.) A PLUG IS PLACED BETWEEN STATIONS 1 AND 2

Missile Datcom Manual

**American Institute of Aeronautics and
Astronautics**



Missile Datcom Manual:

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

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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** 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 - 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* ,1994 *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 Tactical Missile Aerodynamics M. R. Mendenhall,1992 **Tactical Missile Aerodynamics** Michael J. Hemsch,Jack Norman Nielsen,1986 **The International Journal of Applied Engineering Education** ,1988 **Government Reports Annual Index** ,1989 35th Aerospace Sciences Meeting & Exhibit ,1997 Tactical Missile Aerodynamics American Institute of Aeronautics and Astronautics,1992 Prediction Methodology contains updated versions of nine chapters from the first edition and chapters on drag prediction component build up methods Euler methods and Navier Stokes solvers Special attention is paid to nonlinear flow phenomena and unconventional airframe shapes Eight colour plates and more than 540 figures are included Government Reports Announcements & Index ,1989 **Special Course on Missile Aerodynamics** Organisation du traité de l'Atlantique Nord. Groupe consultatif pour la recherche et le développement aérospatial,1988 **AIAA 83-0410 - AIAA 83-0501** ,1983 Missile Datcom Steven R. Vukelich,Stan Stoy,Keith A. Burns,Joseph A. Castillo,Marvin Moore,1988 Development of a Missile DATCOM handbook and computer program is described The type of methods investigated as well as a method selection rationale is discussed Methods were selected for predicting the aerodynamics of missile configurations made up of circular elliptic or arbitrary bodies with or without fins an inlets These methods predict static and dynamic stability derivatives and are suitable for preliminary design A summary of the comparisons of many results with experimental data is included Keywords Computer aided design DATCOM computer program FORTRAN Subsonic Transonic Supersonic Hypersonic 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-4600 - 03-4649 ,2003

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