

Missile Flight Simulation

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a missile flight simulation is a computational tool that calculates the flight of a missile from launch until it engages the target the simulation is based on mathematical models of the missile target and environment this book provides instruction for the preparation of these mathematical models to simulate the flight of a surface to air missile the 2nd edition of missile flight simulation provides updated simulation processes using matlab r and simulink tm while improving and clarifying previous content the book may be used as a reference or as a textbook although it is devoid of exercises however the reader is encouraged to perform the simulation of chapter 12

using matlab r and simulink tm or a programming language such as fortran see chapter 10 the book is not intended to be a missile flight engineering reference and does not contain every aspect of missile flight it provides the appropriate content for simulating missile flight from launch to terminus only

steven h pa tm 2049gidep306 05 00 00 n5 01 tracks aerodynamics design arming devices simulation guided missile components arming devices hypersonic characteristics pneumatic devices acceleration structural members configuration performance engineering the report summarizes the achievements and findings resulting from the phase i effort to experimentally evaluate the feasibility of a missile acceleration simulator based upon the track accelerator ta concept under government contract the goodyear aerospace corporation gac analyzed designed fabricated and tested a scaled down version of a ta deriving sufficient information to accurately design and predict the performance characteristics of a full scale accelerator which would be capable of physically subjecting adaption kit components to simulated launch and flight acceleration time environments author

topics for the 1997 conference on modelling and simulation technologies included motion systems rotor craft and air cushion vehicle dynamics and modelling pilot training and low cost simulation weapons and engagement modelling and simulation simulator network and information technologies visual radar and environmental modelling and simulation test and evaluation space systems simulator fidelity aircraft dynamics modelling and performance simulator development and software re use human factors and research and test facilities

equations of motion are presented for a three dimensional trajectory simulation under the assumption that during the thrust phase the configuration is a rigid body and has 90 degree rotational symmetry for flight simulation during the after burning phase equations based on particle ballistic theory are presented the instantaneous position of the missile in space is defined relative to a spherical rotating earth aerodynamic coefficients considered during the thrust phase are functions of mach number angle of attack and effective roll angle during the after burning phase the aerodynamic drag coefficient is a function of mach number the formulation was designed for the specific purpose of generating accurate fire control data for the asroc missile but may have wide application among other types of rockets for this reason certain terms have been included in the model which are not significant for the asroc application among them are terms to simulate effects of a rotating earth as an option the free flight after burning phase may be simulated by a six degree of freedom model

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