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Proven techniques for deriving the basic aerodynamic properties of axisymmetric-shaped bodies with the minimum amount of time and effort Aerodynamics of Missiles and Rockets describes the basic aerodynamics model used in the widespread Analytical Initial Missile Synthesis (AIMS) computer code for symmetric missile and rocket sizing and design. It is a collection of empirical, semi-empirical and theoretical aerodynamics engineering methods for a component build-up approach to aerodynamics prediction. This book serves as an on-the-job application manual and desk reference for the prediction of basic aerodynamics. It can also be used for courses in applied aerodynamics in Mechanical and Aerospace Engineering programs and for short courses in industry and government. This practical guide provides an alternative approach to utilizing numerous, complex, stand-alone computer codes, but is also a good complement to these codes. The book offers insight into the methods and techniques used to derive answers and correct magnitudes generated by code, giving confidence in final results. Features a Microsoft Excel file that automates calculations and provides complete tabulated output for missile and rocket geometry and design, and design and for rapid assessments of aerodynamic properties based on changes in geometry or flight conditions On-the-job application manual and desk reference for the prediction of basic aerodynamics Combination of long-standing, empirical and semi-empirical techniques with classical aerodynamic theory A component build-up approach utilized, with body and wing/tail surface aerodynamics determined separately and then combined for total configuration zero-lift drag, lift, center of pressure location, and pitching moment

Air and Missile Defense Systems Engineering fills a need for those seeking insight into the design procedures of the air and missile defense system engineering process. Specifically aimed at policy planners, engineers, researchers, and consultants, it presents a balanced approach to negating a target in both natural and electronic attack environmen

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