

1: Rocket Propulsion Elements, 9th Edition [Book]

The definitive text on rocket propulsion—now revised to reflect advancements in the field. For sixty years, Sutton's Rocket Propulsion Elements has been regarded as the single most authoritative sourcebook on rocket propulsion technology.

As with the previous edition, coauthored with Oscar Biblarz, the Eighth Edition of "Rocket Propulsion Elements" offers a thorough introduction to basic principles of rocket propulsion for guided missiles, space flight, or satellite flight. Updated and strengthened throughout, the Eighth Edition explores: The fundamentals of rocket propulsion, its essential technologies, and its key design rationale The various types of rocket propulsion systems, physical phenomena, and essential relationships The latest advances in the field such as changes in materials, systems design, propellants, applications, and manufacturing technologies, with a separate new chapter devoted to turbopumps Liquid propellant rocket engines and solid propellant rocket motors, the two most prevalent of the rocket propulsion systems, with in-depth consideration of advances in hybrid rockets and electrical space propulsion Comprehensive and coherently organized, this seminal text guides readers evenhandedly through the complex factors that shape rocket propulsion, with both theory and practical design considerations. Professional engineers in the aerospace and defense industries as well as students in mechanical and aerospace engineering will find this updated classic indispensable for its scope of coverage and utility. Applications of Rocket Propulsion. Summary of Thermodynamic Relations. Isentropic Flow Through Nozzles. Forces Acting on a Vehicle in the Atmosphere. Basic Relations of Motion. Effect of Propulsion System on Vehicle Performance. Analysis of Chamber or Motor Case Conditions. Analysis of Nozzle Expansion Processes. Results of Thermochemical Calculations. Gas Pressure Feed Systems. Turbopump Feed Systems and Engine Cycles. Safety and Environmental Concerns. Combustion Chamber and Nozzle. Sample Thrust Chamber Design Analysis. Descriptions of Several Turbopumps. Selection of Turbopump Configuration. Approach to Turbopump Preliminary Design. Gas Generators and Preburners. System Integration and Engine Optimization. Basic Relations and Propellant Burning Rate. Propellant Grain and Grain Configuration. Propellant Grain Stress and Strain. Liners, Insulators, and Inhibitors. Propellant Processing and Manufacture. Physical and Chemical Processes. Extinction or Thrust Termination. Rocket Motor Design Approach. Interior Hybrid Motor Ballistics. Performance Analysis and Grain Configuration. Plume Appearance and Flow Behavior. Analysis and Mathematical Simulation. Test Facilities and Safeguards. Instrumentation and Data Management. Appendix 1 Conversion Factors and Constants. Sutton is a consultant for the aerospace industry.

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The recent upsurge in global government and private spending and in space flight events has resulted in many novel applications of rocket propulsion technology. Rocket Propulsion Elements remains the definitive guide to the field, providing a comprehensive introduction to essential concepts and applications.

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