



# Rocket Propulsion Elements

*George P. Sutton, Oscar Biblarz*

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**The classic rocket propulsion text, updated with the industry's latest advances**

*Rocket Propulsion Elements* is the definitive guide for students and professionals, with comprehensive coverage from one of the field's most respected authorities. Combining fundamental concepts with industry applications, this book provides a practical introduction to rocket propulsion principles, mechanisms, and design as applied to guided missiles, space flight, satellite flight, and more. This new ninth edition has been updated to cover the latest advances in the field, including new technologies in systems design, materials, propellants, applications, and manufacturing, with an emphasis on system types commonly used around the world today. Broad in scope yet rich in detail, the discussion covers a wide range of topics from engine performance to propellant chemistry to provide a clear, comprehensive resource for all aspects of rocket propulsion.

Rocket propulsion technology is advancing quickly, driven by a global upsurge in defense spending. Those who design these systems require a strong grounding in the physics and chemistry of rocket propulsion systems, as well as an up-to-date understanding of current industry applications. This book delivers the fundamentals with the guidance of an industry-leading expert.

- Delve into rockets' mechanical systems and design
- Develop a working knowledge of propellant chemistry
- Understand aerodynamics, flight performance, and industry applications
- Learn the latest advances in materials, systems, propellants, and more

This book's unique strength is the presentation of fundamental concepts through the lens of modern applications. As with any engineering field, theory is useful only when it's applied; this book takes a decidedly practical approach to help you link "thinking" and "doing" in a way that will make you a productive engineer. *Rocket Propulsion Elements* provides a solid grounding in principle and a clear understanding of real-world function.

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