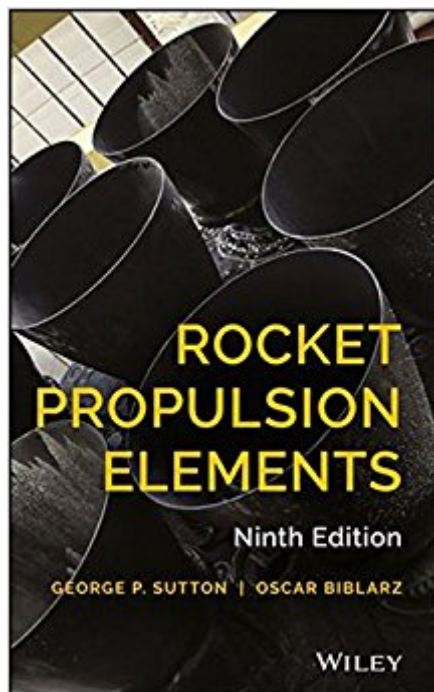


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# Rocket Propulsion Elements



## Synopsis

### THE DEFINITIVE INTRODUCTION TO ROCKET PROPULSION THEORY AND APPLICATIONS

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. Led by industry veteran George P. Sutton and by Professor Oscar Biblarz, this book provides interdisciplinary coverage including thermodynamics, aerodynamics, flight performance, propellant chemistry and more. This thoroughly revised ninth edition includes discussion and analysis of recent advances in the field, representing an authoritative reference for students and working engineers alike. In any engineering field, theory is only as useful as it is practical; this book emphasizes relevant real-world applications of fundamental concepts to link "thinking" and "doing". This book will help readers: Understand the physics of flight and the chemistry of propulsion Analyze liquid, solid, gas, and hybrid propellants, and the engines they fuel Consider high-temperature combustion, stability, and the principles of electric and chemical propulsion Dissect the workings of systems in common use around the world today Delve into the latest advances in materials, systems, propellants, and more Broad in scope, rich in detail, and clear in explanation, this seminal work provides an unparalleled foundation in aerospace engineering topics. Learning through the lens of modern applications untangles complex topics and helps students fully grasp the intricacies on a more intuitive level. *Rocket Propulsion Elements*, Ninth Edition merges information and utility building a solid foundation for innovation.

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GEORGE P. SUTTON is an acknowledged expert on rocket propulsion, and the former Executive Director of Engineering at Rocketdyne (now Aerojet Rocketdyne), and Laboratory Associate at Lawrence Livermore National Laboratory. OSCAR BIBLARZ is a Professor Emeritus in the Department of Mechanical and Aerospace Engineering at the Naval Postgraduate School in Monterey, California.

Great addition to this subject. Updated to reflect the latest in rocket propulsion.

The book does not explain equations very explicitly, you are required to have prior knowledge about Calculus and Newtonian physics. The book does give explicit examples, but its far away from

enough. It does not really explain the equation how they derived the equation from it. I don't have copies of other editions and therefore I can't make an assumption of this book is either good or bad. Everything in this book based on mathematics, there are equations almost in every page of this book. First time buyer, probably gonna buy another book called liquid rocket nozzle design.

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