

1. Record Nr.	UNINA9910890188403321
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Titolo	Rocket Propulsion Primer // by Subramaniam Krishnan, Jeenu Raghavan
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9756-44-8
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (427 pages)
Disciplina	629.4753
Soggetti	Automotive engineering Aerospace engineering Astronautics Solar system Automotive Engineering Aerospace Technology and Astronautics Space Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	History of Rockets -- Propulsion Systems Classification -- Qualitative Performance and Technology -- Quantitative Internal Ballistics Prediction and Design -- Stage Optimization and Trajectories.
Sommario/riassunto	This textbook covers fundamentals of rocket propulsion such as history, classification, qualitative design, quantitative design of internal ballistics and rocket vehicle optimization. It is intended to be used as a textbook by the undergraduate/advanced undergraduate students of aerospace engineering. It further describes the classification of aerospace propulsion, two-phase flows, nozzle contour design, advanced nozzle concepts (plug and expansion deflection nozzles) and materials. It also deals with the optimization of multistage rocket vehicles and their trajectories with reference to the currently operational orbital launch vehicles. This textbook contains numerous end-of-chapter problems to aid in self-learning of the students. It will be highly useful for the aerospace and mechanical engineering students. This can also be used as a reference guide by the scientists and engineers working in the areas of aerospace engineering.

