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Elements of Propulsion: Gas Turbines and Rockets, Second Edition provides a complete introduction to gas turbine and rocket propulsion for aerospace and mechanical engineers. Textbook coverage has been revised and expanded, including a new chapter on compressible flow.

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Building on the very successful Elements of Gas Turbine Propulsion, textbook coverage has been expanded to include rocket propulsion and the material on gas dynamics has been dramatically improved. The text is divided into four parts: basic concepts and gas dynamics; analysis of rocket propulsion systems; parametric (design point) and performance (off-design) analysis of air breathing propulsion systems; and analysis and design of major gas turbine engine components (fans, compressors ...

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Elements of Propulsion: Gas Turbines and Rockets 2nd Edition. Preface: this undergraduate text provides an introduction to the fundamentals of gas turbine engines and jet propulsion. These basic elements determine the behavior, design, and operation of the jet engines and chemical rocket motors used for propulsion.

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Elements of Propulsion : Gas Turbines and Rockets, Hardcover by Mattingly, Jack D.; Boyer, Keith M., ISBN 1624103715, ISBN-13 9781624103711, Brand New, Free shipping in the US Mattingly and Boyer present an undergraduate textbook introducing the fundamentals of gas turbine engines and jet propulsion, the basic elements that determine the behavior, design, and operation of the jet engines and chemical rocket motors used for propulsion.

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## ~~Elements of Gas Turbine Propulsion—Jack D. Mattingly ...~~

Analysis and design of major gas turbine engine components (fans, compressors, turbines, inlets, nozzles, main burners, and afterburners). According to Jim Cantrell (one of SpaceX 's founding engineers), this book

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is one of the five that SpaceX CEO Elon Musk borrowed from him and never returned (Source: Quora).

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