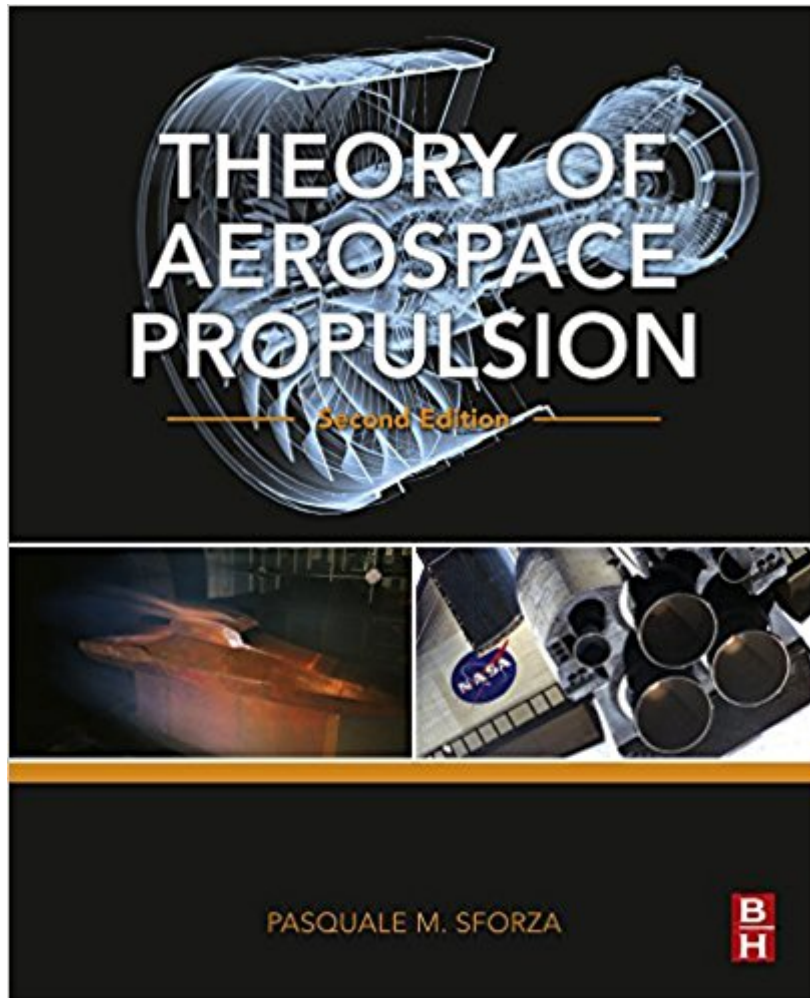




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Theory Of Aerospace Propulsion (Aerospace Engineering)



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Theory of Aerospace Propulsion, Second Edition, teaches engineering students how to utilize the fundamental principles of fluid mechanics and thermodynamics to analyze aircraft engines, understand the common gas turbine aircraft propulsion systems, be able to determine the applicability of each, perform system studies of aircraft engine systems for specified flight conditions and preliminary aerothermal design of turbomachinery components, and conceive, analyze, and optimize competing preliminary designs for conventional and unconventional missions. This updated edition has been fully revised, with new content, new examples and problems, and improved illustrations to better facilitate learning of key concepts. Includes broader coverage than that found in most other books, including coverage of propellers, nuclear rockets, and space propulsion to allows analysis and design of more types of propulsion systems Provides in-depth, quantitative treatments of the components of jet propulsion engines, including the tools for evaluation and component matching for optimal system performance Contains additional worked examples and progressively challenging end-of- chapter exercises that provide practice for analysis, preliminary design, and systems integration

Book Information

File Size: 51274 KB

Print Length: 813 pages

Page Numbers Source ISBN: 0128093269

Publisher: Butterworth-Heinemann; 2 edition (August 13, 2016)

Publication Date: August 13, 2016

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B01KKRBGVE

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #878,595 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #17

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