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Synopsis

Understanding Aerospace Chemical Propulsion is concerned with aeronautical and space chemical propulsion. The book seeks to provide understanding of the propulsion systems through (a) illustrative description of the systems, (b) analysis of modeled systems, (c) examination of the performance of real systems in this light, and (d) provide a comparative assessment of aeronautical and space propulsion system elements wherever relevant. It has eleven chapters covering introduction, specifications, efficiencies, thermos- and gas dynamics, propulsion system analysis, aero-system elements, fuels and performance, rocket combustion process, solid and liquid propulsion systems and combustion instability. Engineers beginning their career in the aerospace industry would benefit from reading this book. Senior engineers overseeing more than one group could revisit the fundamental ideas and reconnect with specific tasks. Salient Features: Covers chemical propulsion as applied in aerospace in a detailed and comprehensive manner, making it a stand-alone text. Gives comparison of air breathing and non-air breathing engines, and utilizes data pertaining to both these type of engines for critical appraisal. The text is supplemented with well-labelled diagrams at every possible instance, making the topics accessible in a better manner. The mathematical equations have been well explained and derived in a step-by-step manner.

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Customer Reviews

Professor H.S. Mukunda has done frontier work in combustion and aerospace propulsion. In this book, he brings in a fundamental approach to understanding the subject embellished by his long

standing close involvement in the development of several aerospace propulsion systems (please see the preliminary pages for a detailed profile of Professor Mukunda).

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