

Aircraft Engine Design, Second Edition (AIAA Education)

By University of Washington J. Mattingly, U.S. Air Force Academy W. Heiser, University of Washington and D. Pratt

This text presents a complete and realistic aircraft engine design experience. From the request for proposal for a new aircraft to the final engine layout, the book provides the concepts and procedures required for the entire process. It is an expanded and updated version of the first edition that emphasizes contemporary developments impacting engine design such as theta break/throttle ratio, life management, controls, and stealth. The key steps of the process are detailed in ten chapters that encompass aircraft constraint analysis, aircraft mission analysis, engine parametric (design point) analysis, engine performance (off-design) analysis, engine installation drag and sizing, and the design of inlets, fans, compressors, main combustors, turbines, afterburners, and exhaust nozzles.

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Review

Great...different in all the right ways...clear and direct...highly organized...a total aircraft [engine] design experience. -- *John D. Anderson, University of Maryland*

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