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Aircraft Engine Design, 2nd Edition, by J. D. Mattingly, W. H. Heiser, and D. T. Pratt, AIAA Education Series, 2002 (ISBN 1-56347-538-3). Call # TL709.5.T87 M38 2002 (This . book deals with design of aircraft engines, with a specific example of an engine for an advanced air-to-air fighter). 9. ...

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the design specifications (for instance: take-off from a runway of given length, flight at a given altitude and required speed, turn at a given altitude, speed and required rate, etc.) into relationships between the

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Advanced Materials for Aircraft Engine Applications | Science

It is an expanded and updated version of the first edition that emphasizes contemporary developments impacting engine design such as theta b 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.

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The book is based on a course on gas turbine engine controls developed and taught by Dr. Jaw and Dr. Mattingly during 2005-2007 to Air Force, Navy, and Army engineers. In addition to six chapters on engine control analysis and design, chapters are included on integration with aircraft systems, advanced engine control concepts, and engine monitoring and health management.

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Annotation Significantly expanded and modernized, this text emphasizes recent developments impacting engine design such as theta break/throttle ratio, life management, controls, and stealth. The key steps of the process are detailed in 10 chapters enhanced by AEDsys software on CD-ROM that provides comprehensive computational support for every design step.

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