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The book methodically, step-by-step guides the reader through the engine design process from request for proposals for a new aircraft to the final engine layout. The author clearly presents the concepts, principles and design issues of modern gas turbine engines.

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Aircraft Engine Design, Second Edition | AIAA Education Series

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Aircraft Engine Design (2nd Edition) Details. From the request for proposal for a new aircraft to the final engine layout, this book provides the concepts and procedures required for the entire process. It is a significantly expanded and modernized version of the best-selling 1st edition that emphasizes recent developments impacting engine design such as theta break-throttle ratio, life management, controls, and stealth.

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Aircraft Engine Design Second Edition written by Jack D. Mattingly, William H. Heiser, Keith M. Boyer, Brenda A. Haven and David T. Pratt is very useful for Aeronautical Engineering (Aero) students and also who are all having an interest to develop their knowledge in the field of Space craft and Space Engineering.

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Aircraft Engine Design, Second Edition | AIAA Education Series

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.

Aircraft Engine Design - Jack D. Mattingly - Google Books

The writing of the third edition of Aircraft Engine Design began as soon as the second edition was published in 2003. The ensuing 15 years of evolutionary changes have created an improved, new work. The special contributions of uniquely qualified experts continue to provide valuable material to this new edition.

Aircraft Engine Design, Third Edition | AIAA Education Series

Aircraft Engine Design, Second Edition (AIAA Education) University of Washington J. Mattingly, U.S. Air Force Academy W. Heiser, University of Washington and D. Pratt Published by AIAA (2003)

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Having published more than 25 technical papers, articles, and textbooks in his field, Dr. Mattingly authored Elements of Gas Turbine Propulsion (1995) and was co-author of Aircraft Engine Design, Second Edition (2002), an unprecedented conceptual design textbook for air breathing engines that won the 2005 AIAA Summerfield Book Award.

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Supplemental Materials

Today (2015), most jet engines have some bypass. Modern engines in slower aircraft, such as airliners, have bypass ratios up to 12:1; in higher-speed aircraft, such as fighters, bypass ratios are much lower, around 1.5; and craft designed for speeds up to Mach 2 and somewhat above have bypass ratios below 0.5.

Bypass ratio - Wikipedia

Aircraft Engine Design Book File Past Winner of the Summerfield Book Award! Aircraft Engine Design, Third Edition presents a complete and realistic aircraft engine design experience. From the request for proposal for a new aircraft to the final engine layout, it outlines the concepts and procedures required for the entire process.

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