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Description 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.

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1848: John Stringfellow made a steam engine for a 10-foot wingspan model aircraft which achieved the first powered flight, albeit with negligible payload. 1903: Charlie Taylor built an inline engine, mostly of aluminum, for the Wright Flyer (12 horsepower). 1903: Manly-Balzer engine sets standards for later radial engines. 1906: L é on Levavasseur produces a successful water-cooled V8 engine ...

Annotation A design textbook attempting to bridge the gap between traditional academic textbooks, which emphasize individual

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concepts and principles; and design handbooks, which provide collections of known solutions. The airbreathing gas turbine engine is the example used to teach principles and methods. The first edition appeared in 1987. The disk contains supplemental material. Annotation c. Book News, Inc., Portland, OR (booknews.com).

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. A user's manual is provided with the software, along with the complete data files used for the Air-to-Air Fighter and Global Range Airlifter design examples of the book.

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

This is a high quality facsimile of Aircraft Engine Design by Joseph Liston, originally published in 1942. This text has been assembled to aid technical students in bridging the gap between the point where they have a fairly complete knowledge of the fundamentals of mathematics, mechanics, and machine design, and the point where they are sufficiently familiar with the application of these fundamentals to the design of aircraft engines to enable them to be of value to aircraft engine building industry. Chapters: 1. Requirements, Possibilities, and Limitations 2. Outline of the Project 3. Gas-Pressure Forces 4. Analysis of the Crank Chain 5. Analysis of Bearing Loads 6. Design of Reciprocating Parts 7. Crankshaft Vibration and Balance 8. Crankshaft Details and Reduction Gearing 9. Cylinders and Valves 10. Valve Gear 11. The Crankcase, Superchargers, and Accessories

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This book is intended for those who wish to broaden their knowledge of jet engine technology and associated subjects. It covers turbojet, turboprop and turbofan designs and is applicable to civilian and military usage. It commences with an overview of the main design types and fundamentals and then looks at air intakes, compressors, turbines and exhaust systems in great detail.

Now in its third edition, *Jet Propulsion* offers a self-contained introduction to the aerodynamic and thermodynamic design of modern civil and military jet engine design. Through two-engine design projects for a large passenger and a new fighter aircraft, the text explains modern engine design. Individual sections cover aircraft requirements, aerodynamics, principles of gas turbines and jet engines, elementary compressible fluid mechanics, bypass ratio selection, scaling and dimensional analysis, turbine and compressor design and characteristics, design optimization, and off-design performance. The civil aircraft, which formed the core of Part I in the previous editions, has now been in service for several years as the Airbus A380. Attention in the aircraft industry has now shifted to two-engine aircraft with a greater emphasis on reduction of fuel burn, so the model created for Part I in this edition is the new efficient aircraft, a twin aimed at high efficiency.

Although the overall appearance of modern airliners has not changed a lot since the introduction of jetliners in the 1950s, their safety, efficiency and environmental friendliness have improved considerably. Main contributors to this have been gas turbine engine technology, advanced materials, computational aerodynamics, advanced structural analysis and on-board systems. Since aircraft design became a highly multidisciplinary activity, the development of multidisciplinary optimization (MDO) has become a popular new discipline. Despite this, the application of MDO during the conceptual design phase is not yet widespread. *Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of*

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Subsonic Civil Airplanes presents a quasi-analytical optimization approach based on a concise set of sizing equations. Objectives are aerodynamic efficiency, mission fuel, empty weight and maximum takeoff weight. Independent design variables studied include design cruise altitude, wing area and span and thrust or power loading. Principal features of integrated concepts such as the blended wing and body and highly non-planar wings are also covered. The quasi-analytical approach enables designers to compare the results of high-fidelity MDO optimization with lower-fidelity methods which need far less computational effort. Another advantage to this approach is that it can provide answers to “ what if ” questions rapidly and with little computational cost. Key features: Presents a new fundamental vision on conceptual airplane design optimization Provides an overview of advanced technologies for propulsion and reducing aerodynamic drag Offers insight into the derivation of design sensitivity information Emphasizes design based on first principles Considers pros and cons of innovative configurations Reconsiders optimum cruise performance at transonic Mach numbers Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes advances understanding of the initial optimization of civil airplanes and is a must-have reference for aerospace engineering students, applied researchers, aircraft design engineers and analysts.

Covers the design of engine control & monitoring systems for both turbofan & turboshaft engines, focusing on four key topics: modeling of engine dynamics; application of specific control design methods to gas turbine engines; advanced control concepts; &, engine condition monitoring.

"The risk of engine failure is greatest when your engine is young, NOT when it's old. You should worry more about pediatrics than

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geriatrics." -Mike Busch A&P/IA Mike Busch on Engines expands the iconoclastic philosophy of his groundbreaking first book *Manifesto* to the design, operation, condition monitoring, maintenance and troubleshooting of piston aircraft engines. Busch begins with the history and theory of four-stroke spark-ignition engines. He describes the construction of both the "top end" (cylinders) and "bottom end" (inside the case), and functioning of key systems (lubrication, ignition, carburetion, fuel injection, turbocharging). He reviews modern engine leaning technique (which your POH probably has all wrong), and provides a detailed blueprint for maximizing the life of your engine. The second half presents a 21st-century approach to health assessment, maintenance, overhaul and troubleshooting. Busch explains how modern condition monitoring tools-like borescopy, oil analysis and digital engine monitor data analysis-allow you to extend engine life and overhaul strictly on-condition rather at an arbitrary TBO. The section devoted to troubleshooting problems like rough running, high oil consumption, temperamental ignition and turbocharging issues is worth its weight in gold. If you want your engine to live long and prosper, you need this book.

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