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*Some have said that if God  
had wanted us to fly, He  
would have given us wings.  
And yet, we were given the*

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*ability to dream, to think  
with our heads, to have  
courage in our hearts, and  
to build with our hands.  
Truly, we have been given  
everything we need: We  
really can fly on our own  
wings! Chris Heintz is a*

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***professional aeronautical engineer with a prolific career spanning over 40 years designing and building light aircraft. Recognized worldwide as a uniquely talented and accomplished designer, his aircraft are***

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***known and appreciated for their simplicity of construction, pilot-friendly cabins and controllability as well as remarkable performances. Today, Chris Heintz designs are flown throughout the world, mostly***

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*by recreational pilots who have assembled their own planes from a kit. His most popular models are also factory-assembled and sold as ready-to-fly sport aircraft on three continents. In FLYING ON*

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***YOUR OWN WINGS, Mr. Heintz shares his knowledge and insights into the art and science of light aircraft design. He “walks” readers through the essential understanding and skills required to conceive,***

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*develop, build and even test-fly their own personal light airplane. Basic mathematics, essential aerodynamics and stress analysis are just a few of the chapters of this fascinating book. Heintz even provides a sample*

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*design to help would-be designers take their first step towards imagining and creating their own wings. Truly a beginner's guide to everything you need to know in order to achieve that age-old dream: To fly on your*



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*own wings!*

***"The Wright Brothers'  
Engines and Their Design" by  
Leonard S. Hobbs. Published  
by Good Press. Good Press  
publishes a wide range of  
titles that encompasses  
every genre. From well-known***

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forgotten-or yet  
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*attempting to bridge the gap between traditional academic textbooks, which emphasize individual concepts and principles; and design handbooks, which provide collections of known solutions. The airbreathing*

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*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*

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*(booknews.com).*

***Aircraft Design***

***What Every Aircraft Owner***

***Needs to Know about the***

***Design, Operation, Condition***

***Monitoring, Maintenance and***

***Troubleshooting of Piston***

***Aircraft Engines***

*Page 14/116*

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***The Record  
Conceptual Design, Analysis  
and Optimization of Subsonic  
Civil Airplanes  
Aeronautical Engineering  
Aviation Engines***

The conception of the Pegasus engine in 1957 upset all the conventions of

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aircraft design. It was previously usual for aircraft designers to seek a suitable engine, but this was an engine that sought an aircraft. The aircraft that resulted was the famous Harrier that is still in front-line service with air forces around the world including the RAF and US Marine



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Corps. This book takes an in-depth look at the engine's original design concept, initial production and flight testing. It then goes on to explain how the developments and improvements have been made over the ensuing years and includes experiences of operational combat flying, both from

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land and sea. The book is written in a non technical style that makes comfortable reading for all enthusiasts and historians and is copiously illustrated with many previously unseen photographs and diagrams.

Although the overall appearance of

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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

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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

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conceptual design phase is not yet widespread. Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes presents a quasi-analytical optimization approach based on a concise set of sizing equations. Objectives are aerodynamic efficiency,

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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

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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 ”

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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



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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

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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.

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***relational algebra and k-  
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such as semantic representation  
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***aircraft conceptual design from requirements definition to initial sizing, configuration layout, analysis, sizing, and trade studies in the same manner seen in industry aircraft design groups. Interesting and easy to read, the book has more than***

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***design engineers.***

***This is the second edition of Cumpsty's excellent self-contained introduction to the aerodynamic and thermodynamic design of modern civil and military jet engines. Through two engine design projects, first for a***

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***new large passenger aircraft, and second for a new fighter aircraft, the text introduces, illustrates and explains the important facets of modern engine design. Individual sections cover aircraft requirements and aerodynamics, principles of gas turbines and jet***

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***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 book***

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***emphasises principles and ideas, with simplification and approximation used where this helps understanding. This edition has been thoroughly updated and revised, and includes a new appendix on noise control and an expanded treatment of***

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*This text provides a self-contained  
introduction to the aerodynamic and  
thermodynamic design of modern civil*



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*and military jet engines. Through two engine design projects, first for a new large passenger aircraft, and second for a new fighter aircraft, the text introduces, illustrates and explains the important facets of modern engine design. Individual sections cover aircraft requirements and*

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*NASA's multifaceted programs and the people who carried them out. Yet much remains to be done, and we hope this publication will facilitate research in this important field."--Page [1].*

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*and drag and computing the available thrust from the engine. The methodology shown here includes formal sizing of the aircraft, engine matching, and substantiating performance to comply with the customer's demands and government regulatory standards. Associated*



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*topics include safety issues, environmental issues, material choice, structural layout, understanding flight deck, avionics, and systems (for both civilian and military aircraft). Cost estimation and manufacturing considerations are also discussed. The chapters are arranged to optimize*

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*understanding of industrial approaches  
to aircraft design methodology.*

*Example exercises from the author's  
industrial experience dealing with a  
typical aircraft design are included.*

*Flying Magazine*

*2018 CFR e-Book Title 14,*

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*An Exploration of Gas Turbine  
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This physics-first, design-oriented

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textbook explains concepts of gas turbine secondary flows, reduced-order modeling methods, and 3-D CFD. There is an increasing emphasis in aeronautical engineering on design. Concentrating on large scale commercial jet aircraft, this textbook

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the preliminary design of gas turbine engines, as well as the associated performance calculations, in a practical manner. A basic knowledge of thermodynamics and turbomachinery is a prerequisite

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for understanding the concepts and ideas described. The book is also intended for teachers as a source of information for lecture materials and exercises for their students. It is extensively illustrated with examples and data

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from real engine cycles, all of which can be reproduced with GasTurb (TM). It discusses the practical application of thermodynamic, aerodynamic and mechanical principles. The authors describe the theoretical

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background of the simulation elements and the relevant correlations through which they are applied, however they refrain from detailed scientific derivations.

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*textbook provides a modern,  
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process of aircraft design from  
requirements to conceptual design,  
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defects, structural characteristics and performance of castings is revealed through a range of tests. It also discusses the latest technologies and advances in this field – such as imaging the solidification process by means of

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synchrotron radiography, 3D computerized tomography and reconstruction of microporosity defects, analysis and diagnosis of error sources for dimension over-tolerance and adjusted pressure casting technology – which are of

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particular interest. Providing essential insights, the book offers a valuable guide to the design and manufacture of superalloy casting parts for aircraft engines.

Aircraft Propulsion and Gas Turbine Engines, Second Edition builds

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upon the success of the book ' s first edition, with the addition of three major topic areas: Piston Engines with integrated propeller coverage; Pump Technologies; and Rocket Propulsion. The rocket propulsion section extends the text ' s coverage

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so that both Aerospace and Aeronautical topics can be studied and compared. Numerous updates have been made to reflect the latest advances in turbine engines, fuels, and combustion. The text is now divided into three parts, the first two

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devoted to air breathing engines, and the third covering non-air breathing or rocket engines.

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



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than 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

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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

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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.

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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

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performance. While thorough in detail, the book is also easily readable so that the information is simple to understand. It is a very good combination of theory and practical application. Nicely illustrated, the book is also full of common sense explanations and



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references to other sources of information." - John Worth, former President and Executive Director of the AMA "Carlos Reyes personably leads the reader through some basic aerodynamics, materials considerations, electric power

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system planning and a practical application of theory as it is applied to a finished flying model. The background history of various types of aircraft shows the development of aviation and how it relates to the models that we build and fly today, as well as

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how models have influenced general aviation. It is always exciting to find some 'new to me' concepts and theories, and there were several in this well-written narrative." - Ken Myers, Editor, Ampeer electric flight newsletter  
"No matter how long you've been

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aeromodelling, or what your interests are in our great hobby, the greatest thrill of all is standing behind a unique model that you've designed and built yourself, from a blank sheet of paper - or even a blank CAD file - and preparing to make that first

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take off. So sit yourself down in a comfy chair, read RCadvisor's Model Airplane Design Made Easy and set off on aeromodelling's greatest adventure. Let Carlos Reyes - an aeromodeller of long standing and great talent - take you through the mysteries of how

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to arrive at the point that every lover of model aircraft should experience." - Dereck Woodward, aeromodeller, designer and magazine writer for the past fifty years

A selection of annotated references to unclassified reports

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and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA)

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This introductory 2005 text on air-breathing jet propulsion focuses on the basic operating principles of jet engines and gas turbines. Previous coursework in fluid mechanics and thermodynamics is elucidated and applied to help the student understand and



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predict the characteristics of engine components and various types of engines and power gas turbines. Numerous examples help the reader appreciate the methods and differing, representative physical parameters. A capstone chapter

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integrates the text material into a portion of the book devoted to system matching and analysis so that engine performance can be predicted for both on- and off-design conditions. The book is designed for advanced undergraduate and first-year

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graduate students in aerospace and mechanical engineering. A basic understanding of fluid dynamics and thermodynamics is presumed. Although aircraft propulsion is the focus, the material can also be used to study ground- and marine-based

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gas turbines and turbomachinery  
and some advanced topics in  
compressors and turbines.

Gas Turbines

The Tool Engineer

The Wright Brothers' Engines and  
Their Design