

National Aeronautics and Space Administration

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Quest for Performance:

The Evolution of Modern Aircraft



By Laurence K. Loftin, Jr.

NASA Scientific and Technical Information Branch

Washington, D.C. 1985

Quest For Performance The Evolution Of Modern Aircraft

Ying-Ying Zheng



Quest For Performance The Evolution Of Modern Aircraft:

Quest for Performance Laurence K. Loftin, 1985 This provides access to a NASA History Office publication NASA SP 468 by Laurence K Loftin Jr NASA Scientific and Technical Information Branch Washington D C 1985 It traces the technical development of the airplane since World War I It describes significant aircraft that incorporated important technical innovations and served to shape the future course of aeronautical development as well as aircraft that represented the state of the art of aeronautical technology in a particular time frame or that were very popular and produced in great numbers Primary emphasis has been placed on aircraft originating in the United States The discussion is related primarily to aircraft configuration evolution and associated aerodynamic characteristics and to a lesser extent to developments in aircraft construction and propulsion The material is presented in a manner designed to appeal to the nontechnical reader who is interested in the evolution of the airplane as well as to students of aeronautical engineering or others with an aeronautical background

Quest for Performance National Aeronautics Administration, Jr Laurence K Loftin, Laurence K., Laurence Loftin, Jr., 2014-11-05 More than 75 years have passed since the Wright brothers historic first flight of a powered heavier than air aircraft at Kitty Hawk North Carolina on December 17 1903 During this relatively brief period the airplane has developed from a useless freak to a highly significant force in modern society The transformation of the airplane during this period must be ranked as one of the great engineering accomplishments of all time The magnitude of the achievement is emphasized by the nature of the vehicle and the rigorous requirements for precise design of every element In no other type of machine with the possible exception of space vehicles do the often conflicting requirements of performance safety reliability and economic viability place such a high premium on detailed design optimization based on quantitative data and analysis This volume traces the technical development of the airplane from a curiosity at the beginning of World War I to the highly useful machine of today Included are significant aircraft that incorporated important technical innovations and served to shape the future course of aeronautical development as well as aircraft that represented the state of the art of aeronautical technology in a particular time frame or that were very popular and produced in great numbers In order to reduce the scope of material under consideration primary emphasis has been placed on aircraft originating in the United States No adverse reflection on the quality of the many fine foreign designs developed over the years is intended by their exclusion The aircraft described certainly do not include all the significant types designed in the time period 1914 80 but they do illustrate the primary features of the technical evolution of the airplane If the reader s favorite aircraft is not included the reference lists at the end of this volume include publications that catalog data and photographs for a wide variety of aircraft The discussion is related primarily to aircraft configuration evolution and associated aerodynamic characteristics and to a lesser extent to developments in aircraft construction and propulsion The material is presented in a manner designed to appeal to the nontechnical reader who is interested in the evolution of the airplane as well as to students of aeronautical

engineering or others with an aeronautical background The use of engineering terminology has been kept at a minimum consistent with accuracy and the intent of the text where unavoidable suitable physical explanations have been included

Quest for Performance Laurence K. Loftin,1985 **Quest for Performance: The Evolution of Modern Aircraft** Laurence K. Loftin (Jr.),1985 *Recueil. Documentation sur Set Söderholm* , The Wind and Beyond: A Documentary Journey Into the History of Aerodynamics in America, V. 2 James R. Hansen,National Aeronautics and Space Administration,2009-08-13 The airplane ranks as one of history s most ingenious and phenomenal inventions It has surely been one of the most world changing How ideas about aerodynamics first came together and how the science and technology evolved to forge the airplane into the revolutionary machine that it became is the epic story told in this six volume series The Wind and Beyond A Documentary Journey through the History of Aerodynamics in America Following up on Volume I s account of the invention of the airplane and the creation of the original aeronautical research establishment in the United States Volume II explores the airplane design revolution of the 1920s and 1930s and the quest for improved airfoils Subsequent volumes cover the aerodynamics of airships flying boats rotary wing aircraft breaking the sound barrier and more *The Wind and Beyond* ,2003 Conceptual Aircraft Design Ajoy Kumar Kundu,Mark A. Price,David Riordan,2019-01-02 Provides a Comprehensive Introduction to Aircraft Design with an Industrial Approach This book introduces readers to aircraft design placing great emphasis on industrial practice It includes worked out design examples for several different classes of aircraft including Learjet 45 Tucano Turboprop Trainer BAe Hawk and Airbus A320 It considers performance substantiation and compliance to certification requirements and market specifications of take off landing field lengths initial climb high speed cruise turning capability and payload range Military requirements are discussed covering some aspects of combat as is operating cost estimation methodology safety considerations environmental issues flight deck layout avionics and more general aircraft systems The book also includes a chapter on electric aircraft design along with a full range of industry standard aircraft sizing analyses Split into two parts Conceptual Aircraft Design An Industrial Approach spends the first part dealing with the pre requisite information for configuring aircraft so that readers can make informed decisions when designing vessels The second part devotes itself to new aircraft concept definition It also offers additional analyses and design information e g on cost manufacture systems role of CFD etc integral to conceptual design study The book finishes with an introduction to electric aircraft and futuristic design concepts currently under study Presents an informative industrial approach to aircraft design Features design examples for aircraft such as the Learjet 45 Tucano Turboprop Trainer BAe Hawk Airbus A320 Includes a full range of industry standard aircraft sizing analyses Looks at several performance substantiation and compliance to certification requirements Discusses the military requirements covering some combat aspects Accompanied by a website hosting supporting material Conceptual Aircraft Design An Industrial Approach is an excellent resource for those designing and building modern aircraft for commercial military and

private use *The Wind and Beyond: Reinventing the airplane* ,2003 **The Wind and Beyond: Reinventing the airplane** James R. Hansen,2003 **Engineer in Charge** James R. Hansen,1987 *Britain's Glorious Aircraft Industry* J Paul Hodgson,2021-03-03 The rich and diverse history of the British aircraft industry is captured in superb detail by the author in this weighty tome Aviation News Great Britain's aircraft industry started in 1908 with the first formally registered organization in the world to offer to design and build an aeroplane for commercial gain This book tells the complete story of the 110 years since the start all the companies formed and the aircraft they produced highlighting the advances in aeronautical ambition and technology It is the story of the creation survival and decline of all one hundred and twenty three of the aircraft design and construction companies formed between 1908 and 2018 The exhilaration of success and the magic of aviation technology are vividly illustrated by the technical and political birth stories of iconic projects such as the Cirrus Gypsy Moths the Tiger Moth the flying boats of Imperial Airways Spitfire Lancaster Viscount Vulcan Harrier Buccaneer and many more The rotary wing industry is not forgotten The birth of the jet turbine engine and the quest for supersonic speed is included The stories of the disappointments of failure and disaster such as the Brabazon Comet Princess Rotodyne and TSR 2 and the growth of international collaboration in Concorde Tornado Airbus Eurofighter Typhoon and other projects are included in the context of the international scene and domestic politics The conclusion highlights the prominent reminiscences and speculates on the future of the aircraft industry in Britain An outstanding reference book and a thoroughly enjoyable canter through the decades from the days of wood and fabric to the modern composite structure of the wings of the A400 Atlas RAF Historical Society **NASA Scientific and Technical Publications** ,1987 *Oversight on the U.S. Government Printing Office General Sales Program* United States. Congress. House. Committee on House Administration. Subcommittee on Procurement and Printing,1991 **General Aviation Aircraft Design** Snorri Gudmundsson,2021-10-31 General Aviation Aircraft Design Second Edition continues to be the engineer's best source for answers to realistic aircraft design questions The book has been expanded to provide design guidance for additional classes of aircraft including seaplanes biplanes UAS high speed business jets and electric airplanes In addition to conventional powerplants design guidance for battery systems electric motors and complete electric powertrains is offered The second edition contains new chapters Thrust Modeling for Gas Turbines Longitudinal Stability and Control Lateral and Directional Stability and Control These new chapters offer multiple practical methods to simplify the estimation of stability derivatives and introduce hinge moments and basic control system design Furthermore all chapters have been reorganized and feature updated material with additional analysis methods This edition also provides an introduction to design optimization using a wing optimization as an example for the beginner Written by an engineer with more than 25 years of design experience professional engineers aircraft designers aerodynamicists structural analysts performance analysts researchers and aerospace engineering students will value the book as the classic go to for aircraft design The printed book is now in color with 1011 figures and illustrations

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Wings Tom D Crouch,2004-11-09 The invention of the airplane ushered in the modern age a new era of global commerce revolutionary technologies and total war In this new history of aviation Crouch weaves the people machines and ideas of the air age into a compelling narrative

Researching World War I Robin Higham,Dennis Showalter,2003-12-30 World War I was the greatest cataclysm Europe had ever known directly involving 61 million troops from 16 nations Yet the history of the war and the reasons it started and spread so rapidly were vastly more complex than the players realized Written by highly respected authorities this book discusses the literature on all aspects of the war making it an excellent starting point for anyone seeking guidance to the immense and often daunting body of World War I literature The struggle mobilized manpower from home troops from the colonies abroad and in most countries women as well as men Governments increasingly intervened in everyday life New weapons and organizational structures were developed Yet the history of the war and the reasons it started and spread so rapidly were vastly more complex than the players realized Written by highly respected authorities this book discusses the literature on all aspects of the war Dennis Showalter s opening chapter covers the controversial issue of the war s origins a complex subject that has been much debated by historians Ensuing chapters consider the literature on each of the participating countries The broader subjects of the war at sea and the war in the air are also covered Daniel Beaver s final chapter discusses the mobilization of industry and the new military technology This book is an excellent starting point for anyone seeking guidance to the immense and often daunting body of World War I literature

American Flying Boats and Amphibious Aircraft E.R. Johnson,2016-03-29 This work is a comprehensive heavily illustrated history of the many flying boats and amphibious aircraft designed and built in the United States It is divided into three chronological sections the early era 1912 1928 the golden era 1928 1945 and the post war era 1945 present with historical overviews of each period Within each section individual aircraft types are listed in alphabetical order by manufacturer or builder with historical background technical specifications drawings and one or more photographs Appendices cover lesser known flying boat and amphibian types as well as various design concepts that never achieved the flying stage

X-Planes from the X-1 to the X-60 Michael H. Gorn,Giuseppe De Chiara,2022-01-01 Foreword by Dr Roger D Launius Former NASA Chief Historian For the past 75 years the U S government has invested significant time and money into advanced aerospace research as evidenced by its many experimental X plane

aircraft and rockets NASA's X Planes asks a simple question: What have we gained from it all? To answer this question, the authors provide a comprehensive overview of the X-plane's long history from the 1946 X-1 to the modern X-60. The chapters describe not just the technological evolution of these models but also the wider story of politics, federal budgets, and inter-agency rivalries surrounding them. The book is organized into two sections: the first covering the operational X-planes that symbolized the Cold War struggle between the U.S. and the U.S.S.R., and the second section surveying post-Cold War aircraft and spacecraft. Featuring dozens of original illustrations of X-plane cross-sections, in-flight profiles, close-ups, and more, this book will educate general readers and specialists alike. *Transforming the Skies* Peter Reese, 2018-02-16

Following the Armistice of 1918, the British Air Industry and the newly founded RAF held a low place in national priorities. The RAF was rapidly run down, with the infant airlines being given the least possible help, and this neglect continued during the 1920s. The RAF's role was questioned, and civilian air travel remained a dream for most, and the province of the well-heeled few. But the breakdown of the Geneva Disarmament Talks led to renewed interest in the National Air Force, and the rise of the European dictators brought calls for rapid modernisation and interceptor aircraft, together with the development of further European civilian air routes. Here Peter Reese charts the dramatic changes that swept aviation across the dynamic interwar period, revealing the transformative last-minute preparations for defence in a world where much depended on the contributions of some outstanding individuals.

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