

forms such as E168 have lower drag than $\frac{1}{8}$ -inch-thick sheet-balsa surfaces. By use of stress-skinned techniques, they can be lighter and stronger.

For both wings and tail surfaces, avoid thick TEs; sand them to $\frac{1}{16}$ -inch thickness with rounded edges. Thick TEs have the same drag as wire landing-gear legs and are longer.

ENGINE AND MUFFLER

Exposed engine cylinders and mufflers are major sources of drag. Fully exposed engines, firewalls and mufflers are even worse.

Some mufflers permit cowling of both engine and muffler completely. This type of cowl has been used on several models powered by .40 to .45 and .46ci engines with absolutely no cooling problems.

The two cooling air outlets are at points of reduced air pressure on the sides of the fuselage. Remember, only the air that actually hits the engine cylinder does the cooling. This thick balsa cowl also acts as a sound damper. Engine noise is noticeably reduced. (See Chapter 17, Ducted Cowl Design.)

FUSELAGE

The fuselage with the lowest C_D , fuselage no. 1 in Figure 1, isn't entirely practical for an R/C model that seeks to simulate the appearance of its full-scale big brothers.

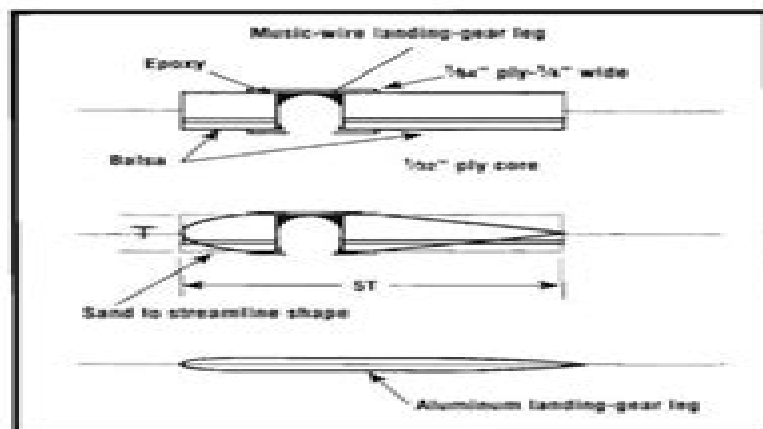
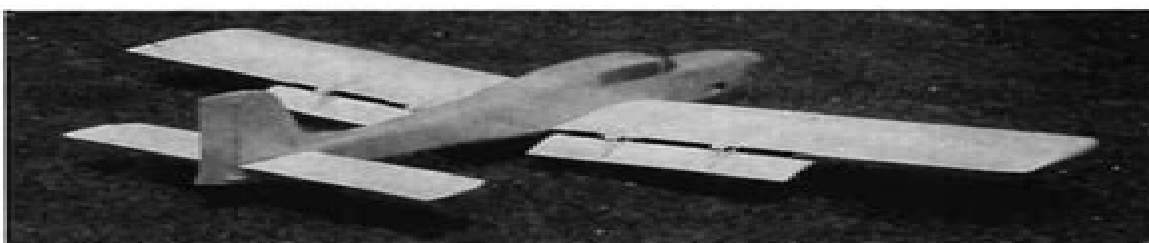


Figure 5.
Streamlining landing-gear legs.



The Seahawk at rest, flaps extended.

The basic low-drag features may, however, be incorporated. Such a model is shown in the photo of the Seahawk. Another photo displays this airplane on its single float. The model's large Youngman flaps, fully extended, are very effective.

At a gross weight, on wheels, of 110 ounces, powered by a .46 engine turning an 11x8 prop, this model's performance is thrilling and justifies the drag-reducing techniques in this chapter.

In plan view, the fuselage sides should be straight and parallel at the wing-fuselage intersection to avoid separation drag. Reflexing starts just after the wing TE.

The angle of incidence at which the wing is set relative to the fuselage centerline is important. It's safe to assume that the fuselage's lowest drag occurs when it's flying, in level flight, with its centerline horizontal.

The wing's being fixed to the fuselage will cause variations in the fuselage's centerline attitude. At low speed, the wing must operate at a higher AoA to provide adequate lift for level flight. At high speeds, lower AoAs furnish the needed lift. Hence, the fuselage's centerline departs from the horizontal, nose up at low speeds, and nose down at higher speeds, both with increased drag.

The solution is to select a level-flight cruising speed and to adjust the wing's angle of incidence to provide the lift needed for level

flight at that speed. At other speeds, the increase in fuselage drag must be accepted. Figure 2 of Chapter 4—the lift, wing loading and speed chart—is very useful in this connection. Using that chart, proceed as follows:

From the wing loading of your model at the bottom of the chart, read upward to the cruise speed you've selected. Where the vertical and horizontal lines intersect, you'll find the C_L needed. For example, a wing loading of 24 ounces per square foot at 60mph needs a C_L roughly halfway between C_L 0.15 and C_L 0.20—say C_L 0.17.

Refer to the lift-drag curves for the wing airfoil of your choice, and determine the AoA for C_L 0.17. Using Eppler E197 as an example, an angle of minus 0.5 degree will produce C_L 0.17. To adjust for the wing's AR of 6, another 0.5 degree should be added to this and the rectangular planform, bringing the AoA to zero degrees.

In your design, the angle of incidence of the wing to the fuselage centerline would be zero degrees to obtain the lowest fuselage drag at the 60mph cruise speed.

LANDING GEAR

This necessary, but drag-producing, appendage provides a significant opportunity for reducing drag. Aluminum landing-gear legs should have rounded LEs and TEs tapered to an almost knife-edge as in Figure 6.

OVERALL DESIGN

Good overall design will do much to reduce trim drag. A shoulder or mid-fuselage wing location, along with a high thrust line (inverted engine), will bring the centers of lift, thrust,

Basics Of Model Aircraft Design

Pasquale De Marco



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Basics of R/C Model Aircraft Design Andy Lennon, 1996 A comprehensive guide to designing radio control model airplanes Andy Lennon presents a thorough and comprehensive introduction to the intriguing world of model aerodynamics Whatever your modeling background this book will be a valuable reference source in your R C library and will never be outdated Fully illustrated

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RCAdvisor's Model Airplane Design Made Easy Carlos Reyes, 2009 Build and fly your very own model airplane design Using clear explanations you will learn about important design trade offs and how to choose among them The latest research and techniques are discussed using easy to understand language You will discover The special challenges faced by the smaller models and how to overcome them How to choose the right material for each part of the airplane Easy rules for selecting the right power system gas or electric When it makes sense to use one of the innovative Kfm airfoils Pros and cons of canard and multi wing configurations A step by step design process that includes goal setting and flight testing In depth discussions of important topics like airfoils and wing design The sources of air drag and how to minimize their impact ADVANCE PRAISE This book is a joy to read The writing style and wit add dimension in a way that is rarely found in today's reference materials If someone has considered designing their own airplane and been put off because of complicated formulas vocabulary and reference style that would bore even an engineer this will convince them to go ahead and try it Written with real people in mind and not engineers and I mean that in a good way This is a book that will reside along the other favorites on my bookshelf Carlos really managed to produce a book that will last a long time and become one of the standards for modelers Greg Gimlick Electric's columnist Model Aviation magazine RCAdvisor's Model Airplane Design Made Easy is the ultimate model airplane design book for both beginning and experienced modelers Richard Kline Inventor Kfm airfoils RCAdvisor's Model Airplane Design Made Easy is a real contribution to the world's literature on the subject It

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Small Unmanned Fixed-wing Aircraft Design Andrew J. Keane,András Sóbester,James P. Scanlan,2017-12-04

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Aircraft Design Ajoy Kumar Kundu, 2010-04-12 Aircraft Design explores fixed winged aircraft design at the conceptual phase of a project Designing an aircraft is a complex multifaceted process embracing many technical challenges in a multidisciplinary environment By definition the topic requires intelligent use of aerodynamic knowledge to configure aircraft geometry suited specifically to the customer s demands It involves estimating aircraft weight 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 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 understanding of industrial approaches to aircraft design methodology Example exercises from the author s industrial experience dealing with a typical aircraft design are included

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Fundamentals of Design of Piloted Aircraft Flight Control Systems United States. Navy Department. Bureau of Aeronautics,1952

Hobbyist's Guide to Electric-Powered Model Aircraft Pasquale De Marco,2025-07-26 In the realm of aviation a new era of flight has emerged powered by the transformative technology of electric propulsion Electric powered model aircraft have taken the hobby world by storm capturing the imagination of enthusiasts with their quiet operation reduced maintenance requirements and environmentally friendly nature Step into the world of electric powered model aircraft and discover the endless possibilities they offer This comprehensive guidebook is your ultimate companion whether you re a seasoned hobbyist or a curious newcomer Dive into the intricacies of electric power systems batteries propellers and flight controls gaining a deep understanding of the technology driving these remarkable aircraft With clear instructions and expert advice we ll guide you through the process of selecting the right components for your aircraft ensuring optimal performance and reliability Whether you choose to build your own model from a kit or assemble a ready to fly model you ll find all the information you need to get started Safety is paramount in the world of electric powered model aircraft We emphasize the importance of proper maintenance pre flight checks and responsible flying practices Learn how to conduct thorough inspections identify potential hazards and operate your aircraft safely and responsibly Beyond the technical aspects we explore the vibrant community of electric powered model aircraft enthusiasts Discover the camaraderie sportsmanship and shared passion that unite this growing community From local clubs and organizations to international competitions and events you ll find opportunities to connect with fellow enthusiasts and share your love for electric powered flight Join us on an electrifying journey into the world of electric powered model aircraft This guidebook is your passport to a world of limitless possibilities where the sky is the limit Embrace the thrill of piloting your own electric powered model aircraft and

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Model Aircraft Aerodynamics, 5th Edition Martin Simons, 2025-07-15 This is the latest edition fully revised and updated of the standard work on aerodynamic theory as applied to model flight Everything is explained in a concise and practical form for those enthusiasts who appreciate that a better understanding of model behavior is the sure path to greater success and enjoyment The revisions for this new edition reflect the significant developments in model aircraft including radio frequency RC model aircraft and drones over the last few years New content including the chapter on aerofoils has been extended to take account of the vast amount of testing carried out recently in the USA at the University of Illinois A new chapter explains the latest research into the flight of birds and insects which is being applied now to small drones and miniature surveillance aircraft Older wind tunnel test reports have been replaced with the latest trials and measurements Full color photos and line drawings featured throughout Topics include factors affecting lift and drag scale effect and the boundary layer basic model performance problems reducing induced draft aspect ratio and more

Conceptual Aircraft Design Ajoy Kumar Kundu, Mark A. Price, David Riordan, 2019-04-08 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

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Fundamentals of High Lift for Future Civil Aircraft Rolf Radespiel, Richard Semaan, 2020-10-17 This book reports on the latest numerical and experimental findings in the field of high lift technologies It covers interdisciplinary research subjects relating to scientific computing aerodynamics aeroacoustics material sciences aircraft structures and flight mechanics The respective chapters are based on papers presented at the Final Symposium of the Collaborative Research Center CRC 880 which was held on December 17 18 2019 in Braunschweig Germany The conference and the research presented here were partly supported by the CRC 880 on Fundamentals of High Lift for Future Civil Aircraft funded by the DFG German Research Foundation The papers offer timely insights into high lift technologies for short take off and landing aircraft with a special focus on aeroacoustics efficient high lift flight dynamics and aircraft design [Airman Mike Harvell, 1990](#) **Air Controlman 3 & 2 [prepared by the Naval Education and Training Program Development Center, Pensacola, Fla.]**. Naval Education and Training Program Development Center, 1975 [Proceedings of the 6th China Aeronautical Science and Technology Conference](#) Chinese Soc. of Aeronautics&Astronautics, 2023-12-18 This book contains the original peer reviewed research papers presented at the 6th China Aeronautical Science and Technology Conference held in Wuzhen Zhejiang Province China in September 2023 Topics covered include but are not limited to Navigation Guidance and Control Technology Aircraft Design and Overall Optimisation of Key Technologies Aviation Testing Technology Airborne Systems Electromechanical Technology Structural Design Aerodynamics and Flight Mechanics Advanced Aviation Materials and Manufacturing Technology Advanced Aviation Propulsion Technology and Civil Aviation Transportation The papers presented here share the latest findings in aviation science and technology making the book a valuable resource for researchers engineers and students in related fields *Aircraft Design Projects* Lloyd R. Jenkinson, Jim Marchman, 2003-04-28 Written with students of aerospace or aeronautical engineering firmly in mind this is a practical and wide ranging book that draws together the various theoretical elements of aircraft design structures aerodynamics

propulsion control and others and guides the reader in applying them in practice Based on a range of detailed real life aircraft design projects including military training commercial and concept aircraft the experienced UK and US based authors present engineering students with an essential toolkit and reference to support their own project work All aircraft projects are unique and it is impossible to provide a template for the work involved in the design process However with the knowledge of the steps in the initial design process and of previous experience from similar projects students will be freer to concentrate on the innovative and analytical aspects of their course project The authors bring a unique combination of perspectives and experience to this text It reflects both British and American academic practices in teaching aircraft design Lloyd Jenkinson has taught aircraft design at both Loughborough and Southampton universities in the UK and Jim Marchman has taught both aircraft and spacecraft design at Virginia Tech in the US Demonstrates how basic aircraft design processes can be successfully applied in reality Case studies allow both student and instructor to examine particular design challenges Covers commercial and successful student design projects and includes over 200 high quality illustrations

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