

WHAT IS AIRCRAFT DESIGN?

Aircraft design is a separate discipline of aeronautical engineering different from the analytical disciplines such as aerodynamics, structures, controls, and propulsion. An aircraft designer needs to be well versed in these and many other specialties, but will actually spend little time performing such analysis in all but the smallest companies. Instead, the designer's time is spent doing something called "design," creating the geometric description of a thing to be built.

To the uninitiated, "design" looks a lot like "drafting" (or in the modern world, "computer-aided drafting"). The designer's product is a drawing. However, the designer's real work is mostly mental. A good aircraft design seems to miraculously glide through subsequent evaluations by specialists without major changes being required. Somehow, the landing gear fits, the fuel tanks are near the center of gravity, the structural members are simple and lightweight, the overall arrangement provides good aerodynamics, the engines install in a simple and clean fashion, and a host of similar detail seems to fall into place. This is no accident, but rather the product of a lot of knowledge and hard work by the designer.

Other key players participate in the design process. Design is not just the actual layout, but also the analytical processes used to determine what should be designed and how the design should be modified to better meet the requirements. In a small company, this may be done by the same individuals who do the layout design. In the larger companies, aircraft analysis is done by the sizing and performance specialists with the assistance of experts in aerodynamics, weights, propulsion, stability, and other technical specialties.

CONCEPTUAL DESIGN

Aircraft design can be broken into three major phases, conceptual design, preliminary design and detail design. In conceptual design, the basic questions of configuration arrangement, size and weight, and performance are answered. The first question is, "Can an affordable aircraft be built that meets the requirements?" If not, the customer may wish to relax the requirements. Conceptual design is a very fluid process. New ideas and problems emerge as a design is investigated in ever-increasing detail. Each time the latest design is analyzed and sized, it must be redrawn to reflect the new gross weight, fuel weight, wing size, engine size, and other changes. Early wind-tunnel tests often reveal problems requiring some changes to the configuration.

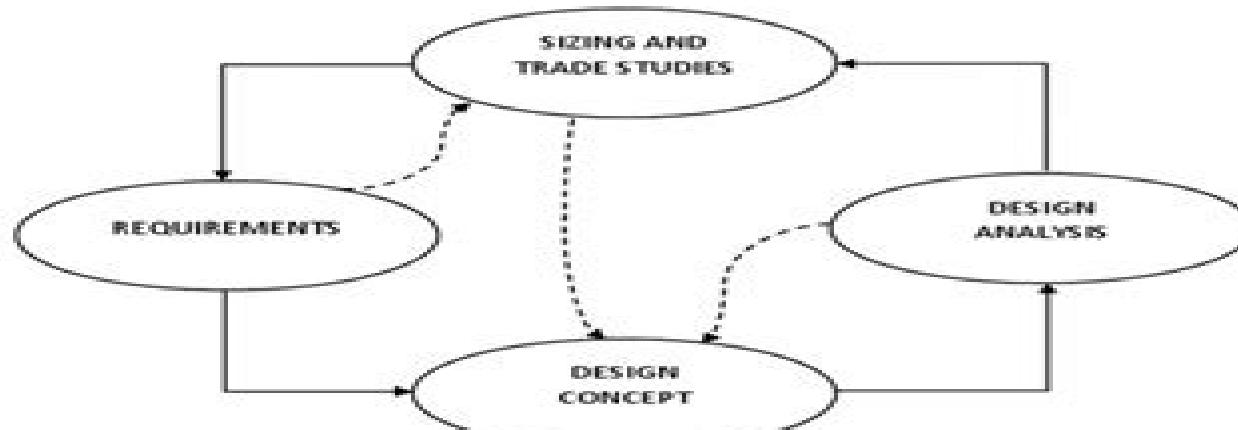


Fig 1.1 The design wheel

Aircraft Design Manual

Cervantes (Hector), Inc

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Airplane Design Manual Frederick Kurt Teichmann,1958 *Aircraft Detail Design Manual* Stanley J. Dzik,1974
Airplane Design Manual ,1944 **Aircraft Design Manual** ,19?? Aircraft Design Through Service Experience
United States. Civil Aeronautics Administration,1953 Design Manual on Aircraft Electrical Installations Aerospace
Industries Association of America. Aircraft Technical Committee,1952 **Catalog of Aeronautical and Allied Technical
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Cervantes,1974 **Scientific and Technical Aerospace Reports** ,1982-04 *Design Manual for Impact Damage
Tolerant Aircraft Structure* John G. Avery,1981 **Aircraft Detail Design Manual** ,1988 Aircraft Detail Design Manual
Cervantes (Hector), Inc,1974 **Aircraft Design** Mohammad H. Sadraey,2012-11-20 A comprehensive approach to the air
vehicle design process using the principles of systems engineering Due to the high cost and the risks associated with
development complex aircraft systems have become a prime candidate for the adoption of systems engineering
methodologies This book presents the entire process of aircraft design based on a systems engineering approach from
conceptual design phase through to preliminary design phase and to detail design phase Presenting in one volume the
methodologies behind aircraft design this book covers the components and the issues affected by design procedures The
basic topics that are essential to the process such as aerodynamics flight stability and control aero structure and aircraft
performance are reviewed in various chapters where required Based on these fundamentals and design requirements the
author explains the design process in a holistic manner to emphasise the integration of the individual components into the
overall design Throughout the book the various design options are considered and weighed against each other to give
readers a practical understanding of the process overall Readers with knowledge of the fundamental concepts of
aerodynamics propulsion aero structure and flight dynamics will find this book ideal to progress towards the next stage in
their understanding of the topic Furthermore the broad variety of design techniques covered ensures that readers have the
freedom and flexibility to satisfy the design requirements when approaching real world projects Key features Provides full
coverage of the design aspects of an air vehicle including aeronautical concepts design techniques and design flowcharts
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Aircraft Design* ,1953 **Adult Catalog: Subjects** Los Angeles County Public Library,1970 **Handbook of Instructions
for Airplane Designers** United States. Army. Air Corps,1920 **Technical Information Pilot** ,1952 Design Manual

on Aircraft Electrical Installations Aerospace Industries Association of America, 1958

Aircraft Design Manual Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Aircraft Design Manual**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect on readers.

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