



An Overview of Landing Gear Design and Development

The landing gear design and integration process encompasses knowledge of many engineering disciplines such as structures, dynamics, kinematics, fluid mechanics and runway flotation. The geometry, flotation requirements, mission requirements and operational requirements of the aircraft govern the landing gear configuration.

The configuration design includes choice of number of wheels, tire sizes, pressures, type of shock absorbers, landing-gear layout, retraction kinematics and bay geometry design.

Airworthiness regulations play a crucial role in arriving at the landing gear configuration, such as sink rate, allowable load factors and ground maneuvering conditions, stipulated in the applicable airworthiness regulations.

Some of these Airworthiness Regulations are given in Table 1.

Aircraft Type	Regulations/ Specifications
Utility and Aerobatic Airplanes	FAR 23, CS 23, CAR 23
Civil Transport Airplanes	FAR 25, CS 25, CAR 25
Military Aircraft	US MIL Specifications, DEF-STAN-970

Table 1: Airworthiness Regulations

A brief summary of various life cycle stages of landing gear design and development are described below:

Concept Design

The concept design starts with a study of all design specifications and airworthiness regulations. A concept is then evolved while meeting the functional and regulatory requirements. Major design drivers are performance, safety, cost, time frame, technology and resources. The landing gear location is arrived at and type of landing gear is selected. The landing gear geometry is defined along with kinematics. Steering concepts are also identified in this phase. The ground loads are estimated using dynamic simulations for material selection and preliminary sizing of components. The actuation mechanisms and loads are also worked out in this phase. Various trade-off studies are performed to optimize weight, volume and cost. Based on these trade-off studies a best concept is selected.

Preliminary Design

In the preliminary design phase, dynamic simulations are carried out for landing, take-off and retraction kinematics to arrive at data required for sizing of components and material selection. Preliminary design of components is performed and weight estimates are arrived at.

Aircraft Landing Gear Design Principles And Practices

**North Atlantic Treaty Organization.
Advisory Group for Aerospace
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Structures and Materials Panel.
Meeting**

Aircraft Landing Gear Design Principles And Practices:

Aircraft Landing Gear Design Norman S. Currey, 1988 Annotation This is the only book available today that covers military and commercial aircraft landing gear design It is a comprehensive text that will lead students and engineers from the initial concepts of landing gear design through final detail design The book provides a vital link in landing gear design technology from historical practices to modern design trends and it considers the necessary airfield interface with landing gear design The text is backed up by calculations specifications references working examples

Aircraft Landing Gear Design Norman S. Currey, 1988 This is the only book available today that covers military and commercial aircraft landing gear design It is a comprehensive text that will lead students and engineers from the initial concepts of landing gear design through final detail design The book provides a vital link in landing gear design technology from historical practices to modern design trends and it considers the necessary airfield interface with landing gear design The text is backed up by calculations specifications references working examples

The Design of Aircraft Landing Gear Robert Kyle Schmidt, 2021-02-18 The aircraft landing gear and its associated systems represent a compelling design challenge simultaneously a system a structure and a machine it supports the aircraft on the ground absorbs landing and braking energy permits maneuvering and retracts to minimize aircraft drag Yet as it is not required during flight it also represents dead weight and significant effort must be made to minimize its total mass The Design of Aircraft Landing Gear written by R Kyle Schmidt PE B A Sc Mechanical Engineering M Sc Safety and Aircraft Accident Investigation Chairman of the SAE A 5 Committee on Aircraft Landing Gear is designed to guide the reader through the key principles of landing system design and to provide additional references when available Many problems which must be confronted have already been addressed by others in the past but the information is not known or shared leading to the observation that there are few new problems but many new people The Design of Aircraft Landing Gear is intended to share much of the existing information and provide avenues for further exploration The design of an aircraft and its associated systems including the landing system involves iterative loops as the impact of each modification to a system or component is evaluated against the whole It is rare to find that the lightest possible landing gear represents the best solution for the aircraft the lightest landing gear may require attachment structures which don't exist and which would require significant weight and compromise on the part of the airframe structure design With those requirements and compromises in mind The Design of Aircraft Landing Gear starts with the study of airfield compatibility aircraft stability on the ground the correct choice of tires followed by discussion of brakes wheels and brake control systems Various landing gear architectures are investigated together with the details of shock absorber designs Retraction kinematics and mechanisms are studied as well as possible actuation approaches Detailed information on the various hydraulic and electric services commonly found on aircraft and system elements such as dressings lighting and steering are also reviewed Detail design points the process of analysis and a review of the relevant requirements

and regulations round out the book content The Design of Aircraft Landing Gear is a landmark work in the industry and a must read for any engineer interested in updating specific skills and students preparing for an exciting career **Advances in Aircraft Landing Gear** Robert Kyle Schmidt,2015-08-24 The aircraft landing gear system is relatively unique on board an aircraft it is both structure and machine supporting the aircraft on the ground yet providing functions such as energy absorption during landing retraction steering and braking Advances in Aircraft Landing Gear is a collection of eleven hand picked technical papers focusing on the significant advancements that have occurred in this field concerning numeric modeling electric actuation and composite materials Additionally papers discussing self powered landing gear and more electrical overall aircraft architectures have been included The content of Advances in Aircraft Landing Gear is divided into two sections Analysis and Design Methods and Electric Actuation Control and Taxi For those looking for more information on aircraft landing gears the SAE A 5 committee the Aerospace Landing Gear Systems Committee which meets twice a year serves as a useful forum for discussion on landing gear issues and development A current listing of documents produced and maintained by this committee appears in the appendix *Developing Improved Civil Aircraft Arresting Systems* Matthew A. Barsotti,John Mark Howard Puryear,David J. Stevens,2009 At head of title Airport Cooperative Research Program [Aircraft Landing Gear Design](#) Norman S. Currey,1988 This text aims to lead students and engineers from the initial concepts of landing gear design through to the final detail design It provides a link in landing gear technology from historical practices to modern design trends also considering the necessary airfield interface with gear design **Advanced Materials, Structures and Mechanical Engineering** Mosbeh Kaloop,2016-04-14 The International Conference on Advanced Materials Structures and Mechanical Engineering 2015 ICAMSME 2015 was held on May 29 31 Incheon South Korea The conference was attended by scientists scholars engineers and students from universities research institutes and industries all around the world to present ongoing research activities This [Proceedings of the 2025 2nd International Conference on Electrical Engineering and Intelligent Control \(EEIC 2025\)](#) Ata Jahangir Moshayedi,2025-11-20 This is an open access book The organizing committee is honored to extend a heartfelt welcome to the 2nd International Conference on Electrical Engineering and Intelligent Control EEIC 2025 Building on the resounding success of its inaugural edition in Singapore 2024 as part of the Conference on Intelligent Collaboration CIC series this year s conference will convene in Auckland New Zealand reaffirming its role as a global nexus uniting leading researchers scholars and industry pioneers in electrical engineering and intelligent control Auckland s dynamic fusion of world class academia a thriving innovation ecosystem and a steadfast commitment to sustainability mirrors EEIC s vision for Collaborative Intelligence Ethical Innovation and Resilient Systems By hosting EEIC 2025 here we aim to harness the city s unique energy to address emerging challenges and drive technological progress with ethical foresight Under this guiding theme EEIC 2025 will catalyze cutting edge dialogue showcase transformative advancements and inspire collaborative solutions to shape the future of intelligent systems Through

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Model Validation and Uncertainty Quantification, Volume 3 Sez Atamturktur, Tyler Schoenherr, Babak Moaveni, Costas Papadimitriou, 2025-08-07 Model Validation and Uncertainty Quantification Volume 3 Proceedings of the 34th IMAC A Conference and Exposition on Dynamics of Multiphysical Systems From Active Materials to Vibroacoustics 2016 the third volume of ten from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Uncertainty Quantification Model Validation Uncertainty Propagation in Structural Dynamics Bayesian Markov Chain Monte Carlo Methods Practical Applications of MVUQ Advances in MVUQ Model Updating Robustness in Design Validation Verification Validation Methods

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Vehicle, Mechatronics and Information Technologies II X.D. Yu, M.Y. Zhang, M.Q. Zhu, K.H. Xu, Q.C. Xiang, 2014-03-24 Selected peer reviewed papers from the 2014 International Conference on Vehicle

Mechanical Engineering and Information Technology VMEIT 2014 February 19 20 2014 Beijing China **Aerospace America** ,2004 **The Design, Qualification and Maintenance of Vibration-free Landing Gear** North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Structures and Materials Panel. Meeting,1996
 The Aeronautical Journal ,1989 **Aircraft Design** Daniel P. Raymer,1989 This textbook for advanced students focuses on industry design practice rather than theoretical definitions Covers configuration layout payload considerations aerodynamics propulsion structure and loads weights stability and control performance and cost analysis Annotation copyright Book **New Technical Books** New York Public Library,1990 Aircraft Performance & Design John David Anderson,1999 Balancing technical material with important historical aspects of the invention and design of aeroplanes this book develops aircraft performance techniques from first principles and applies them to real aeroplanes **Aircraft Propulsion Systems Technology and Design** Gordon C. Oates,1989 Annotation The last of three texts on aircraft propulsion technology planned by Gordon C Oates Other titles Aerodynamics of gas turbine and rocket propulsion 1988 Aerothermodynamics of aircraft engine components 1985 Chapters treat combustion technology engine airplane performance matching inlets and inlet engine integration variable convergent divergent nozzle aerodynamics engine instability aeroelasticity and unsteady aerodynamics Annotation c 2003 Book News Inc Portland OR booknews com 37th AIAA Aerospace Sciences Meeting and Exhibit ,1999

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