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The aircraft is only a transport mechanism for the payload, and all design decisions must consider payload first. Simply stated, the aircraft is a dust cover. "Fundamentals of Aircraft and Airship Design, Volume 1: Aircraft Design" emphasizes that the science and art of the aircraft design process is a compromise and that there is no right answer; however, there is always a best answer based on existing requirements and available technologies.

"Fundamentals of aircraft and airship design, volume 2 - airship design and case studies examines a modern conceptual design of both airships and hybrids and features nine behind-the-scenes case studies. It will benefit graduate and upper-level undergraduate students as well as practicing engineers. The authors address the conceptual design phase comprehensively, for both civil and military airships, from initial consideration of user needs, material selection, and structural arrangement to the decision to iterate the design one more time. The book is the only available source of design instruction on single-lobe airships, multiple-lobe hybrid airships, and balloon configurations; on solar- and gasoline-powered airship systems, human-powered aircraft, and no-power aircraft; and on estimates of airship/ hybrid aerodynamics, performance, propeller selection, S & C, and empty weight. The book features numerous examples, including designs for airships, hybrid airships, and a high-altitude balloon; nine case studies, including SR-71, X-35B, B-777, HondaJet, Hybrid Airship, Daedalus, Cessna 172, T-46A, and hang gliders; and full-color photographs of many airships and aircraft."--Publisher description

Originally published in 1927, this volume was intended to fill the dual role of textbook for the student of airship design and handbook for the practical engineer. The design of airships, particularly of the rigid type, is mainly a structural problem; and theoretical aerodynamics has nothing like the relative importance which it bears in airplane design. This is to be expected when we consider that the gross lift of an airship depends solely on the specific gravity of the gas and the bulk of the gas container, and not at all on shape or other aerodynamic characteristics which determine the lift of airplanes.

Winner of the Summerfield Book Award Winner of the Aviation-Space Writers Association Award of Excellence. --Over 30,000 copies sold, consistently the top-selling AIAA textbook title This highly regarded textbook presents the entire process of 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 800 pages of design methods, illustrations, tips, explanations, and equations, and extensive appendices with key data essential to design. It is the required design text at numerous universities around the world, and is a favorite of practicing design engineers.

A unique and indispensable guide to modern airship design and operation, for researchers and professionals working in mechanical and aerospace engineering.

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