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Airship Design 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,

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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

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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.

Investigates all elements of the UAS design process, including architectural options and design drivers across diverse system classes. This book provides a comprehensive understanding of the end-to-end unmanned aircraft system and a deeper appreciation for the multidisciplinary nature of UAS design.

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most cases, numerical examples involve actual aircraft specs. Concepts are visually depicted by a number of useful black-and-white figures, photos, and graphs (with full-color images included in the eBook only). Broad and deep in coverage, it is intended for practicing engineers, aerospace engineering students, mathematically astute amateur aircraft designers, and anyone interested in aircraft design. Organized by articles and structured in an "equation/derivation/solved example" format for easy access to the content you need Numerical examples involve actual aircraft specs Contains high-interest topics not found in other texts, including sizing of horizontal and vertical tails to minimize drag, sizing of lifting surfaces to ensure proper dynamic stability, numerical performance methods, and common

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