



Aircraft Design: A Conceptual Approach (Hardback)

By Daniel P. Raymer

American Institute of Aeronautics Astronautics, United States, 2013. Hardback. Condition: New. 5th Revised edition. Language: English . Brand New Book. This best-selling textbook presents the entire process of aircraft conceptual design - from requirements definition to initial sizing, configuration layout, analysis, sizing, optimization, and trade studies. Widely used in industry and government aircraft design groups, Aircraft Design: A Conceptual Approach is also the design text at major universities around the world. A virtual encyclopedia of engineering, it is known for its completeness, easy-to-read style, and real-world approach to the process of design. Special features: more than 900 pages of design methods, illustrations, tips, explanations, and equations; overviews of lofting, subsystems, maintainability, producibility, vulnerability, and stealth; concepts and calculation methods for aerodynamics, stability and control, propulsion, structures, weights, performance, and cost; coverage of conventional and unconventional design methods, including UAV, canard, tandem wing, C-wing, oblique wing, asymmetrical, multi-fuselage, wing-in-ground-effect, and more; and, VTOL, helicopter, spacecraft, launch vehicle, hypersonic, and airship design. New topics include: advice on how to become an aircraft designer; electric aircraft, batteries, fuel cells, and solar cells; green airplanes, including biofuels, GTL, hydrogen, methane, and nuclear; active aeroelastic wing and advanced tailless concepts; and enhanced learning materials,...



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