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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. Using a real-world approach to the process of design, this title features more than 900 pages of design methods, illustrations, tips, explanations, and equations. It includes 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.

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