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Design of Unmanned Aerial Systems Aircraft Design Introduction to UAV Systems

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provides a comprehensive introduction to the design and analysis of unmanned aircraft systems with a systems perspective written for students and engineers who are new to the field of unmanned aerial vehicle design this book teaches the many uav design techniques being used today and demonstrates how to apply aeronautical science concepts to their design design of unmanned aerial systems covers the design of uavs in three sections vehicle design autopilot design and ground systems design in a way that allows readers to fully comprehend the science behind the subject so that they can then demonstrate creativity in the application of these concepts on their own it teaches students and engineers all about uav classifications design groups design requirements mission planning conceptual design detail design and design procedures it provides them with in depth knowledge of ground stations power systems propulsion systems automatic flight control systems guidance systems navigation systems and launch and recovery systems students will also learn about payloads manufacturing considerations design challenges flight software microcontroller and design examples in addition the book places major emphasis on the automatic flight control systems and autopilots provides design steps and procedures for each major component presents several fully solved step by step examples at component level includes numerous uav figures images to emphasize the application of the concepts describes real stories that stress the significance of safety in uav design offers various uav configurations geometries and weight data to demonstrate the real world applications and examples covers a variety of design techniques processes such that the designer has freedom and flexibility to satisfy the design requirements in several ways features many end of chapter problems for readers to practice design of unmanned aerial systems is an excellent text for courses in

the design of unmanned aerial vehicles at both the upper division undergraduate and beginning graduate levels

learn the aircraft design process from a systems engineering perspective designed for both aspiring and practicing aerospace engineers aircraft design incorporates a range of technological areas including aerodynamics flight dynamics propulsion and structure aircraft engineering design therefore requires techniques from systems engineering to integrate the requirements from these disparate areas into a coherent whole there has never been a greater need for successful aerospace engineers to have a grasp of systems engineering and its applications in the field aircraft design a systems engineering approach meets this need with a volume which takes the reader from conceptual design to detail design offering a systems engineering approach that weighs the needs of different aircraft components holistically it provides readers with a practical look into the process of aircraft design now fully updated to reflect the latest industry developments it promises to continue as an indispensable tool for modern students in the field readers of the second edition of aircraft design will also find brand new material on structural design spoiler design winglets aircraft modification and modernization and more detailed discussion of emerging topics including all electric aircraft design vtol aircraft design and many others guidance on the latest faa requirements with a design impact aircraft design is ideal for senior undergraduate and graduate students interested in aircraft design advanced aircraft design and air vehicle design the book may also be of interest to mechanical industrial and systems engineers working in the aerospace sector

the latest edition of the leading resource on unmanned aerial vehicle systems in the newly revised fifth edition of introduction to uav systems an expert team of aviators engineers and researchers delivers the fundamentals of uav systems for both professionals and students in uav courses suitable for students in both aerospace engineering programs as well as flight and aeronautics programs this new edition now includes end of chapter questions and online instructor ancillaries that make it an ideal textbook as the perfect complement to the author s design of unmanned aerial systems this book includes the history classes and missions of uavs it covers fundamental topics like aerodynamics stability and control propulsion loads and structures mission planning

payloads and communication systems brand new materials in areas including autopilots quadcopters payloads and ground control stations highlight the latest industry technologies the authors also discuss a thorough introduction to the history of unmanned aerial vehicles including their use in various conflicts an overview of critical uav systems and the predator reaper a comprehensive exploration of the classes and missions of uavs including several examples of uav systems like mini uavs ucavs and quadcopters practical discussions of air vehicles including coverage of topics like aerodynamics flight performance stability and control in depth examinations of propulsion loads structures mission planning control systems and autonomy perfect for professional aeronautical and aerospace engineers as well as students and instructors in courses like unmanned aircraft systems design and introduction to unmanned aerial systems introduction to uav systems is also an indispensable resource for anyone seeking coverage of the latest industry advances and technologies in uav and uas technology

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