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[Aircraft Design : Mohammad H. Sadraey : 9781119953401](#)

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Small student teams retrospectively analyze an existing aircraft covering: key design drivers and decisions; aircraft attributes and subsystems; and operational experience. Oral and written versions of the case study are delivered. For the Fall 2005 term, the class focuses on a systems engineering analysis of the Space Shuttle.

[Aircraft design process - Wikipedia](#)

[Aileron Design Chapter 12 Design of Control Surfaces From: Aircraft Design: A Systems Engineering Approach Mohammad Sadraey 792 pages September 2012, Hardcover Wiley Publications](#)

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Description. A comprehensive approach to the air vehicle design process using the principles of systems engineering Due to the high cost and the risks associated with development, complex aircraft systems have become a prime candidate for the adoption of systems engineering methodologies. This book presents the entire process of aircraft design based on a systems engineering approach from conceptual design phase, through to preliminary design phase and to detail design phase.

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The aircraft design process is a loosely defined method used to balance many competing and demanding requirements to produce an aircraft that is strong, lightweight, economical and can carry an adequate payload while being sufficiently reliable to safely fly for the design life of the aircraft. Similar to, but more exacting than, the usual engineering design process, the technique is highly ...

[What is Aircraft Systems Engineering - Chegg Tutors ...](#)

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