

Introduction To Aeronautics A Design Perspective 2nd Edition Aiaa Education Series

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this text and the accompanying aerodynamic software are designed for use in teaching basic design methods in an introductory course on aeronautics brandt aeronautics us air force academy devotes the first chapter of the text to methods of engineering and aircraft design then covers basic aeronautical engineering methods used in each step of the design process final chapters explain how all of the methods are used in the conceptual aircraft design process and present case studies of the development of three well known aircraft designs previous courses in calculus classical physics and engineering mechanics are assumed annotation 2004 book news inc portland or booknews com

prepared at the request of nasa aeronautical technologies for the twenty first century presents steps to help prevent the erosion of u s dominance in

the global aeronautics market the book recommends the immediate expansion of research on advanced aircraft that travel at subsonic speeds and research on designs that will meet expected future demands for supersonic and short haul aircraft including helicopters commuter aircraft tiltrotor and other advanced vehicle designs these recommendations are intended to address the needs of improved aircraft performance greater capacity to handle passengers and cargo lower cost and increased convenience of air travel greater aircraft and air traffic management system safety and reduced environmental impacts

the most exciting moment for an aeronautical engineer is when his or her design becomes a working aircraft the endpoint of a journey that begins in the classroom this textbook provides the resources students need to understand the methods and thought processes involved in designing aircraft students learn through the use of specific analytical principles and practical examples taught to them through examples case studies and corresponding problems for professors this textbook comes complete with end of chapter homework problems that provide a summary of the concepts and features contained in the chapters the problems provide students with an excellent opportunity to analyze and synthesize industry examples ensuring that they understand the key concepts and their applications

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