



Introduction to Aeronautics: A Design Perspective (AIAA Education Series)

By John J. Bertin, Steven A. Brandt, Randall J. Stiles



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The journey from an aeronautical engineer's design to a working aircraft is one which begins in the classroom. This textbook provides the resources students need to understand the methods and thought processes involved in designing aircraft. The book provides a working knowledge of how an aircraft is shaped and optimized to perform specific missions by countless design decisions. It seeks to provide motivation throughout a student's academic career by giving an idea of the design process and providing a foundation for more advanced studies in aeronautical and aerospace engineering. End of chapter problems give a summary of concepts and features and provide an opportunity to analyze and synthesize industry examples and their applications.

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Editorial Review

About the Author

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Dr. John J. Bertin, Professor of Aeronautics, is a member of the USAF Scientific Advisory Board, author and co-author of two books, and a world-renowned expert on hypersonic flight. He has over 30 years experience in aircraft design, hypersonic aerodynamics research, and university-level engineering education. He is currently the Content Supervisor for the core aero course at the USAF Academy.

Professor Ray Whitford, Senior Lecturer in Aeronautics at the Royal Military College of Science, Shrivenham, England, has over 25 years experience in aircraft design, design education, and research. He is the author of one book and numerous technical papers and magazine articles.

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