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The book provides a great foundation in aerodynamics principles and theory for aeronautical engineers or mechanical engineers studying aerospace engineering. The book is well organized and well written with clear and easy to follow explanations.

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Revised to reflect the technological advances and modern application in aerodynamics, this edition merges fundamental fluid mechanics, experimental techniques, and computational fluid dynamics techniques to build a solid foundation for students in aerodynamic applications from low-speed flight through hypersonic flight.

"The study of aerodynamics is a challenging and rewarding discipline within aeronautics since the ability of an airplane to perform (how high, how fast, and how far an airplane will fly, such as the F-15E shown in Fig. 1.1 ) is determined largely by the aerodynamics of the vehicle. However, determining the aerodynamics of a vehicle (finding the lift and drag) is one of the most difficult things you will ever do in engineering, requiring complex theories, experiments in wind tunnels, and simulations using modern highspeed computers. Doing any of these things is a challenge, but a challenge well worth the effort for those wanting to better understand aircraft flight"--

For junior/senior and graduate-level courses in Aerodynamics, Mechanical Engineering, and Aerospace Engineering Revised to reflect the technological advances and modern application in Aerodynamics, the Sixth Edition of Aerodynamics for Engineers merges fundamental fluid mechanics, experimental techniques, and computational fluid dynamics techniques to build a solid foundation for students in aerodynamic applications from low-speed through hypersonic flight. It presents a background discussion of each topic followed by a presentation of the theory, and then derives fundamental equations, applies them to simple computational techniques, and compares them to experimental data. Teaching and Learning Experience To provide a better teaching and learning experience, for both instructors and students, this program will: Apply Theory and/or Research: An excellent overview of manufacturing concepts with a balance of relevant fundamentals and real-world practices. Engage Students: Examples and industrially relevant case studies demonstrate the importance of the subject, offer a real-world perspective, and keep students interested.

Aerodynamics for Engineering Students, Fifth Edition, is the leading course text on aerodynamics. The book has been revised to include the latest developments in flow control and boundary layers, and their influence on modern wing design as well as introducing recent advances in the understanding of fundamental fluid dynamics. Computational methods have been expanded and updated to reflect the modern approaches to aerodynamic design and research in the aeronautical industry and elsewhere,

and the structure of the text has been developed to reflect current course requirements. The book is designed to be accessible and practical. Theory is developed logically within each chapter with notation, symbols and units well defined throughout, and the text is fully illustrated with worked examples and exercises. The book recognizes the extensive use of computational techniques in contemporary aeronautical design. However, it can be used as a stand-alone text, reflecting the needs of many courses in the field for a thorough grounding in the underlying principles of the subject. The book is an ideal resource for undergraduate and postgraduate students in aeronautical engineering. The classic text, expanded and updated. Includes latest developments in flow control, boundary layers and fluid dynamics. Fully illustrated throughout with illustrations, worked examples and exercises.

An excellent introduction to inviscid airflow using potential theory, this book is a classic in its field. Complete reprint of the revised 1966 edition, which brings the subject up to date.

The first edition (1979) is cited in BCL3. A textbook for a course in aerodynamics for advanced undergraduates or grad students. Presumes basic physics, thermodynamics, and math. Annotation copyright Book News, Inc. Portland, Or.

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