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Aerodynamics for Engineering Students. Paperback – Sept. 27 2016. by E. L. Houghton (Author), P. W. Carpenter (Author), Steven H. Collicott (Author), Daniel Valentine (Author) & 1 more. 5.0 out of 5 stars 2 ratings.

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Richly illustrated, it provides a comprehensive treatment of the fundamental aerodynamic theory and phenomena with applications relevant to modern engineering. New to this edition: the latest developments in drag reduction and high-lift aerodynamics as well as computer-based aerodynamic design with key segments of computer programs to facilitate understanding.

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Aerodynamics for Engineering Students, Seventh Edition, is one of the world ' s leading course texts on aerodynamics. It provides concise explanations of basic concepts, combined with an excellent introduction to aerodynamic theory. This updated edition has been revised with improved pedagogy and reorganized content to facilitate student learning, and includes new or expanded coverage in several important areas, such as hypersonic flow, UAV ' s, and computational fluid dynamics. Provides contemporary applications and examples that help students see the link between everyday physical examples of aerodynamics and the application of aerodynamic principles to aerodynamic design Contains MATLAB-based computational exercises throughout, giving students practice in using industry-standard computational tools Includes examples in SI and Imperial units, reflecting the fact that the aerospace industry uses both systems of units Improved pedagogy, including more examples and end-of-chapter problems, and additional and updated MATLAB codes

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"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"--

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This book covers the application of computational fluid dynamics from low-speed to high-speed flows, especially for use in aerospace applications.