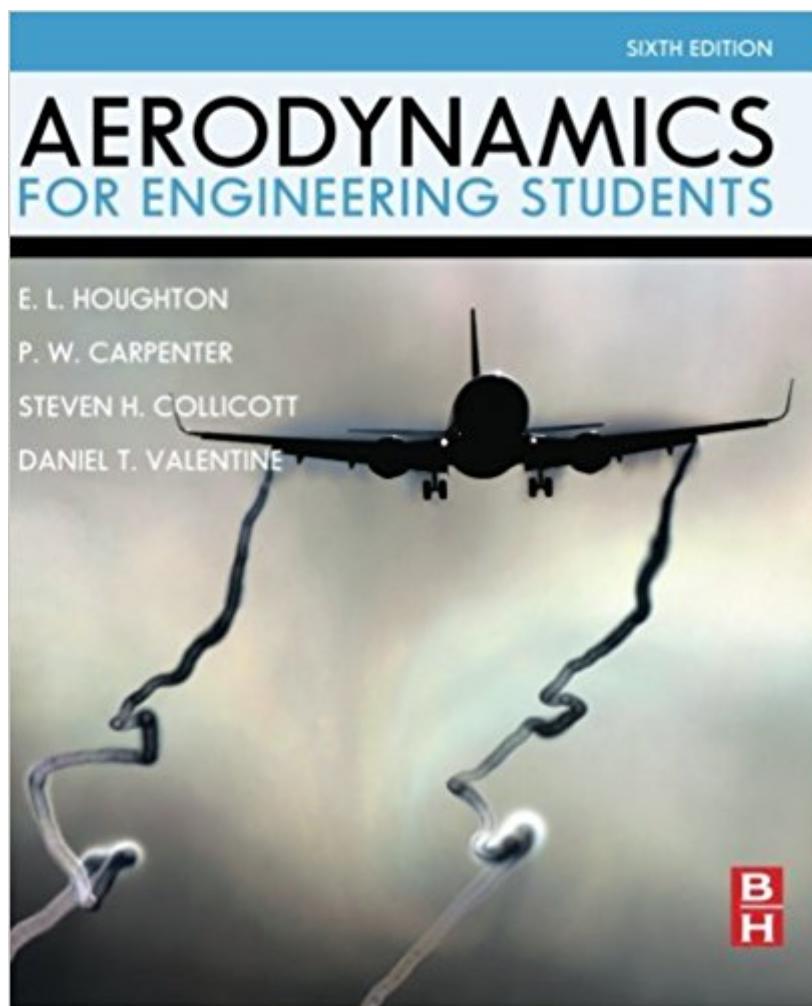


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Aerodynamics For Engineering Students, Sixth Edition



Synopsis

Already one of the leading course texts on aerodynamics in the UK, the sixth edition welcomes a new US-based author team to keep the text current. The sixth edition has been revised to include the latest developments in compressible flow, computational fluid dynamics, and contemporary applications. Computational methods have been expanded and updated to reflect the modern approaches to aerodynamic design and research in the aeronautical industry and elsewhere, and new examples of *the aerodynamics around you* have been added to link theory to practical understanding. Expanded coverage of compressible flow MATLAB(r) exercises throughout, to give students practice in using industry-standard computational tools. m-files available for download from companion website Contemporary applications and examples help students see the link between everyday physical examples of aerodynamics and the application of aerodynamic principles to aerodynamic design. Additional examples and end of chapter exercises provide more problem-solving practice for students. Improved teaching support with PowerPoint slides, a solutions manual, m-files, and other resources to accompany the text.

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Customer Reviews

"The book is clearly written and can be confidently recommended as a general and comprehensive aerodynamics text for the use of students of aeronautical engineering." --Journal of Aerospace Engineering

Daniel Valentine is a Professor of Mechanical and Aeronautical Engineering at Clarkson University and Affiliate Director of the Clarkson Space Grant Program which is part of the New York NASA Space Grant Consortium. This program has provided support for undergraduate research appointments, and for graduate students. He is currently investigating the nonlinear dynamics of two-dimensional, Navier-Stokes flows as part of his work on the development of computational methods to solve fluid dynamics problems. He is also working on the flow-structure interaction of long-span bridges, unsteady hydrodynamics and offshore renewable energy. Other activities include investigations to develop a computational method to predict the effect of a marine propulsor on wave resistance of ships, to examine the effect of density stratification on rotating flows, to develop computational tools to predict the time-averaged properties of high-Reynolds number flows among other fluid mechanics problems.

This is the worst textbook I have ever used so far. I took a course by one of the authors, and even he admitted that the textbook needed more proofreading. Some of the equations are slightly wrong, making this textbook very unreliable source. You simply have to cross check the equations because some (though not many) are wrong. Harder than what it really has to be too. The previous edition I would say is far better.

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