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concepts used in stability, transition, and
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study of fluid mechanics and examine the flows of Newtonian fluids. Although the material deals with Newtonian fluids, the concepts can be easily generalized to non-Newtonian fluid mechanics. The book contains many examples. Each chapter is accompanied by problems where the chapter theory can be applied to produce

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and animations, thereby enhancing their fluid mechanics learning experience. Text has been reorganized to provide a better flow from topic to topic and to consolidate portions that belong together. Changes made to the book's pedagogy accommodate the needs of students who have completed minimal prior study of

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aerodynamics, it is especially important for students to master the fundamentals. This text, written by renowned experts, clearly presents the basic concepts of underlying aerodynamic prediction methodology. These concepts are closely linked to physical principles so that they are more readily retained and their limits

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of applicability are fully appreciated. Ultimately, this will provide students with the necessary tools to confidently approach and solve practical flight vehicle design problems of current and future interest. This book is designed for use in courses on aerodynamics at an advanced undergraduate or graduate level. A

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comprehensive set of exercise problems is included at the end of each chapter.

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