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Basic Fluid Mechanics

David C. Wilcox, David C Wilcox

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Basic Fluid Mechanics is an innovative new book on introductory fluid mechanics with important features unavailable in other similar books. This 742-page hardback text features the following:

This book has integrity in the sense that the book has a central theme revolving around the control-volume method, dimensional analysis, establishing logical problem-solving methods, and continually stressing the physics of fluid motion (as opposed to the disorganization that often grows out of a long series of revisions);

A 246-page, typeset study guide entitled *Study Guide for Basic Fluid Mechanics* (available separately, ISBN 0-9636051-9-4) complements the text---the Study Guide includes more than 150 problems with detailed solutions (as opposed to cluttering the main text with far too many examples solved in a sketchy manner).

A two-volume, 1,400-page, typeset solution manual is available to universities that adopt the book for course use---the solution manual has been developed by the author (as opposed to the common practice of having a graduate student prepare the solution manual);

It presents an integrated, three-pronged approach of analytical, experimental and computational (CFD) methods for analyzing fluid-flow problems (as opposed to appending a stand-alone chapter on CFD);

It includes 1,000 homework problems ranging from straightforward to truly challenging, and sometimes humorous---the problems are designed to stimulate abstraction (as opposed to problem solving by rote);

It includes numerous home experiments that students can perform with no special laboratory equipment;

It can be used for a two-course sequence in fluid mechanics;

It is priced below all of the major introductory fluid-mechanics texts---in some cases, by as much as $20.

As a teacher, Dr. Wilcox found the virtues of most modern fluid mechanics books to be diluted by deficiencies of various types, with a tendency toward teaching the student what to think rather than how to think. These flaws forced him to develop a detailed set of lecture notes based on his education at MIT and Caltech and his teaching experience at USC and UCLA. His students liked the lecture notes so much that they encouraged him, year after year, to write his own book. He has written that book and entitled it *Basic Fluid Mechanics*.

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