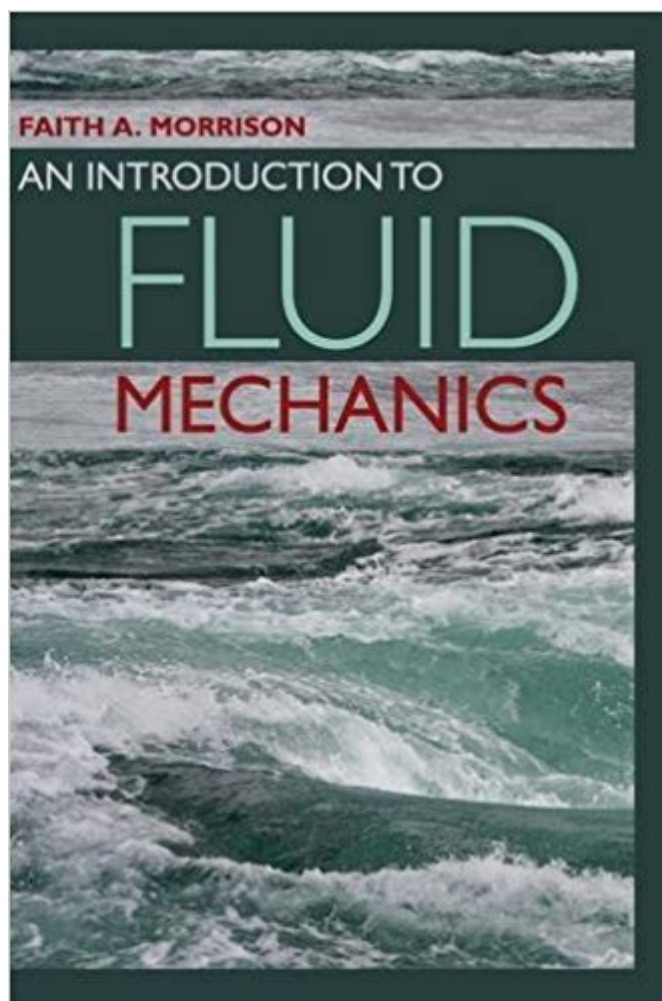


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An Introduction To Fluid Mechanics



Synopsis

This is a modern and elegant introduction to engineering fluid mechanics enriched with numerous examples, exercises, and applications. It is based on Faith Morrison's vision that flows are both beautiful and complex. A swollen creek tumbles over rocks and through crevasses, swirling and foaming. Taffy can be stretched, reshaped, and twisted in various ways. Both the water and the taffy are fluids and their motions are governed by the laws of nature. The goal of this textbook is to introduce the reader to the analysis of flows using the laws of physics and the language of mathematics. This text delves deeply into the mathematical analysis of flows, because knowledge of the patterns fluids form and why they are formed and the stresses fluids generate and why they are generated is essential to designing and optimizing modern systems and devices. Inventions such as helicopters and lab-on-a-chip reactors would never have been designed without the insight brought by mathematical models.

Book Information

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Customer Reviews

"... being brave is what makes this book truly outstanding. The author is not afraid of throwing difficult problems and concepts to readers from the beginning ... The book reads very well and it almost feels like listening to the author's lecture. It is a pleasure to find many practical advices embedded in the text ... This book is a truly remarkable achievement that will significantly contribute in educating future fluid mechanists without sacrificing rigorousness and the beauty of the subject. The book will appeal to lecturers who teach introductory fluid mechanics and both undergraduate

and graduate students in engineering and science majors. Practicing engineers in the related fields will also find it useful." Dr Yong Sung Park, The Aeronautical Journal

This is a modern and elegant introduction to engineering fluid mechanics enriched with numerous examples, exercises, and applications. It is based on Faith Morrison's vision that flows are both beautiful and complex. This text delves deeply into the mathematical analysis of flows on the basis that such analysis is essential to designing and optimizing modern systems and devices.

Satisfied

Death. Death to this textbook. I learned so little in a class taught from this book. (Not to mention it was brand new, incredibly difficult to follow, and has no solutions manuals for when you don't know what the crap is happening). It focuses only on the pure mathematics of fluids with no practice or instruction on solving real life pump or flow problems--not even the ones that we can model. This textbook gave my nightmares and brought a great darkness into my household last semester. Also, Faith Morrison has a mullet. If you don't believe me, google image search her. That is all.

Beautiful book. Really easy to understand and very well organized. It was overall a much more enjoyable reading experience than most of the other textbooks I've used over the years.

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