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Essential Fluids with MATLAB and Octave - Part 1 (Theory) P. Venkataraman, 2024-01-15 This book covers the requisite theory for the basic study of fluid mechanics at low speeds This book is unique in that it integrates engineering computation using the popular technical software MATLAB and the free counterpart Octave Programming is by example throughout the book Prior knowledge of programming is not necessary This book reviews prerequisite topics prior to teaching the subject matter This book introduces the physics of fluid mechanics based on first principles It develops the mathematical relations and model of fluid flow so that problems can be defined and solved The translation of natural laws into mathematical models includes two approaches The integral approach is simple though limited This approach uses assumptions and simplifications that makes it easy to apply and acquire a solution however that solution will lack detail and merely provide average or overall values Thus the integral approach is inadequate for understanding or designing complex fluid systems On the other hand it may provide an approximate value with limited effort It may be able to establish bounds around the true value The differential approach is complex but expansive The solution is established at every point in the flow domain making it possible to include specific local effects and special properties of the flow The topics in this book are illustrated with examples with most solved by computation The premise of this book is that science and mathematical concepts are best understood through graphics therefore software illustrates solutions through graphical programming Students are taught and encouraged to explore solutions through graphics

Essential Fluids With MATLAB and Octave Part 2 Applications will include design and applications based on simple parameterized models that rely mostly on algebra These are input output models which are infused with parameters based on empirical data that are read off charts or interpolated from tables

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Mechanics Faith A. Morrison, 2013-04-15 This is a modern and elegant introduction to engineering fluid mechanics enriched with numerous examples exercises and applications 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 aim of this textbook is to introduce the reader to the analysis of flows using the laws of physics and the language of mathematics The book delves deeply into the mathematical analysis of flows knowledge of the patterns fluids form and why they are formed and also the stresses fluids generate and why they are generated is essential to designing and optimising modern systems and devices Inventions such as helicopters and lab on a chip reactors would never have been designed without the insight provided by mathematical models **Re-entry Systems**

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