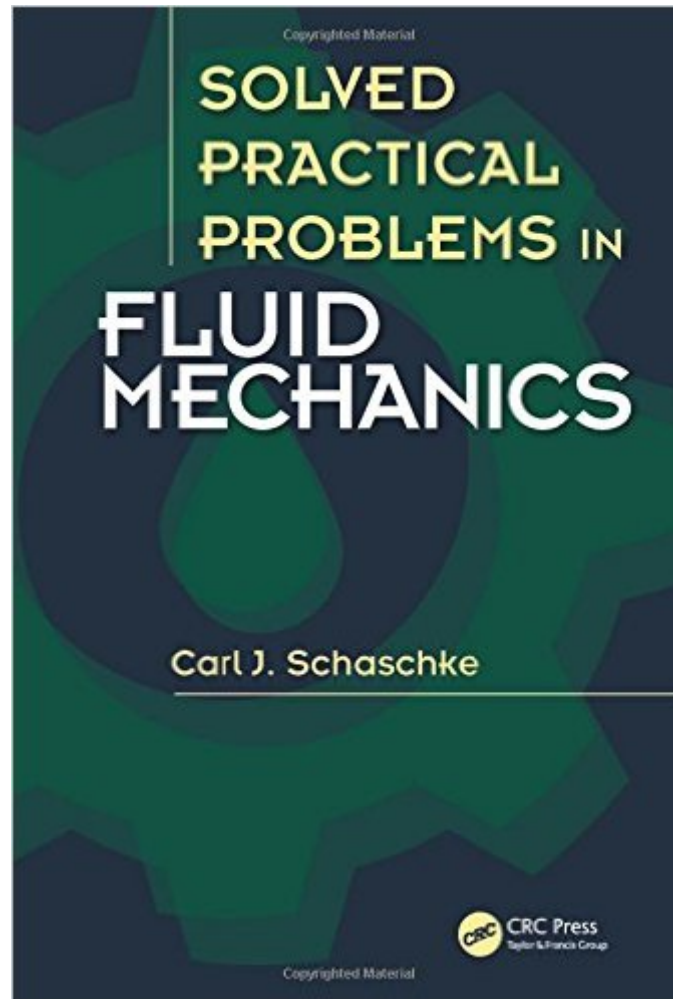The book was found

Solved Practical Problems In Fluid Mechanics

Synopsis

Contains Fluid Flow Topics Relevant to Every Engineer Based on the principle that many students learn more effectively by using solved problems, Solved Practical Problems in Fluid Mechanics presents a series of worked examples relating fluid flow concepts to a range of engineering applications. This text integrates simple mathematical approaches that clarify key concepts as well as the significance of their solutions, and fosters an understanding of the fundamentals encountered in engineering. Comprised of nine chapters, this book grapples with a number of relevant problems and asks two pertinent questions to extend understanding and appreciation: What should we look out for? and What else is interesting? This text can be used for exam preparation and addresses problems that include two-phase and multi-component flow, viscometry and the use of rheometers, non-Newtonian fluids, and applications of classical fluid flow principles. While the author incorporates terminology recognized by all students of engineering and provides a full understanding of the basics, the book is written for engineers who already have a rudimentary understanding and familiarity of fluid flow phenomena. It includes engineering concepts such as dimensionless numbers and requires a fluency in basic mathematical skills, such as differential calculus and the associated application of boundary conditions to reach solutions. Solved Practical Problems in Fluid Mechanics thoroughly explains the concepts and principles of fluid flow by highlighting various problems frequently encountered by engineers with accompanying solutions. This text can therefore help you gain a complete understanding of fluid mechanics and draw on your own practical experiences to tackle equally tricky problems.

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