

# Frank M White Fluid Mechanics 7th Edition

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offers a comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications and helps students quickly see the practical importance of fluid mechanics fundamentals

market desc mechanical and civil engineers students and professors of engineering special features explores the fundamental concepts physical concepts and first principles of fluid mechanics integrates 30 new problems that make the material more relevant offers an expanded discussion of pipe networks and a new section on oblique shocks and expansion waves presents new simplified examples with more detailed explanations to make concepts easier to understand about the book one of the bestselling books in the field introduction to fluid mechanics continues to provide readers with a balanced and comprehensive approach to mastering critical concepts the new seventh edition once again incorporates a proven problem solving methodology that will help them develop an orderly plan to finding the right solution it starts with basic equations then clearly states assumptions and finally relates results to expected physical behavior many of the steps involved in analysis are simplified by using excel

for all fluid mechanics hydraulics and related courses in mechanical manufacturing chemical fluid power and civil engineering technology and engineering programs the leading applications oriented approach to engineering fluid mechanics is now in full color with integrated software new problems and extensive new coverage now in full color with an engaging new design applied fluid mechanics seventh edition is the fully updated edition of the most popular applications oriented approach to engineering fluid mechanics it offers a clear and practical presentation of all basic principles of fluid mechanics both statics and dynamics tying theory directly to real devices and systems used in mechanical chemical civil and environmental engineering the 7th edition offers new real world example problems and integrates the use of an online downloadable demo of world renowned pipe flo r software for piping system analysis and design it presents new procedures for problem solving and design more realistic and higher quality illustrations and more coverage of many topics including hose plastic pipe tubing pumps viscosity measurement devices and computational fluid mechanics full color images and color highlighting make charts graphs and tables easier to interpret organize narrative material into more manageable chunks and make all of this text s content easier to study teaching and learning experience this applications oriented introduction to fluid mechanics has been redesigned and improved to be more engaging interactive and pedagogically effective completely redesigned in full color with additional pedagogical features all designed to engage today s students this edition contains many new full color images upgraded to improve realism consistency graphic quality and relevance new pedagogical features have been added to help students explore ideas more widely and review material more efficiently provides more hands on practice and real world applications including new problems includes new real world example problems and supplementary problems students can access an online downloadable demo of the popular pipe flo r software to complete select activities updated and refined to reflect the latest products tools and techniques contains updated data and analysis techniques improved problem solving and design techniques new content on many topics and extensive new references

fluid mechanics an intermediate approach helps readers develop a physics based understanding of complex flows and mathematically model them with accurate boundary conditions for numerical predictions the new edition starts with a chapter reviewing key undergraduate concepts in fluid mechanics and thermodynamics introducing the generalized conservation equation for differential and integral analyses it concludes with a self study chapter on computational fluid dynamics cfd of turbulent flows including physics based postprocessing of 3d cfd results and entropy map generation for accurate interpretation and design applications this book includes numerous worked examples and end of chapter problems for student practice it also discusses how to numerically model compressible flow over all mach numbers in a variable area duct accounting for friction heat transfer rotation internal choking and normal shock formation this book is intended for graduate mechanical and aerospace engineering students taking courses in fluid mechanics and gas dynamics instructors will be able to utilize a solutions manual for their course

in the intervening 20 years since the 3rd edition of this textbook many advances have been made in the design of turbines and greater understanding of the processes involved have been gained this 4th edition brings the book up to date

fundamentals of fluid mechanics 7th edition offers comprehensive topical coverage with varied examples and problems application of visual component of fluid mechanics and strong focus on effective learning the text enables the gradual development of confidence in problem solving the authors have designed their presentation to enable the gradual development of reader confidence in problem solving each important concept is introduced in easy to understand terms before more complicated examples are discussed continuing this book s tradition of extensive real world applications the 7th edition includes more fluid in the news case study boxes in each chapter new problem types an increased number of real world photos and additional videos to augment the text material and help generate student interest in the topic example problems have been updated and numerous new photographs figures and graphs have been included in addition there are more videos designed to aid and enhance comprehension support visualization skill building and engage students more deeply with the material and concepts

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