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material to motivate readers interest in fluid mechanics through exciting applications such as case studies relating to energy and the environment issues and new videos demonstrating fluid mechanics principles

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helps students develop an orderly approach to problem solving by starting from basic equations stating assumptions clearly and relating results to expected physical behavior many detailed example problems demonstrate good solution techniques and explain troublesome points of theory updated and expanded with increased coverage of relevant topics more example and homework problems and new sections on supersonic channel flow and fluid machinery

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***2015-07-03***

introduction to fluid mechanics second edition uses clear images and animations of flow patterns to help readers grasp the fundamental rules of fluid behavior everyday examples are provided for practical context before tackling the more involved mathematic techniques that form the basis for computational fluid mechanics this fully updated and expanded edition builds on the author s flair for flow visualization with new content with basic introductions to all essential fluids theory and exercises to test your progress this is the ideal introduction to fluids for anyone involved in mechanical civil chemical or biomedical engineering provides illustrations and animations to demonstrate fluid behavior includes examples and exercises drawn from a range of engineering fields explains a range of computerized and traditional methods for flow visualization and how to choose the correct one features a fully reworked section on computational fluid dynamics based on discretization methods

## ***Fox and McDonald's Introduction to Fluid Mechanics 2020***

fluid mechanics is often seen as the most difficult core subject encountered by engineering students the problem stems from the necessity to visualise complex flow patterns and fluid behaviour modelled by high level mathematics this text overcomes this difficulty by introducing the concepts through everyday examples before moving on to the more involved

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mathematics the various theories of flow have been correlated with real phenomena and combined with numerous figures and photographs help the reader place the subject in context examples from a broad range of engineering disciplines are included making this textbook suitable for all engineers studying fluid systems as part of their degree introduction to fluid mechanics is translated from the best selling japanese book by professor yasuki nakayama and adapted for the international market by professor robert boucher introduces the concepts through everyday examples before moving on to the more invoved mathematics various theories of flow are applied to real phenomena and illustrated with numerous figures and photographs includes examples from a bread range of engineering disciplines

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market desc mechanical chemical and aerospace engineers professors in mechanical engineering students special features contains complete tabulated fluid property data that present density and viscosity data for important fluids as functions of temperature without the need to interpolate from graphs complete and thorough coverage of the mathematics that underlies fluid mechanics addition of problems that emphasize computer applications about the book this successful book presents the fundamentals of fluid mechanics clearly and succinctly knowledge of fluid flow is essential to industries involving heat transfer chemical processes and aerodynamics the book makes use of a problem solving methodology and includes outstanding example problems topics covered are flow fields potential theory and boundary layer theory bernoulli s equation dimensional analysis

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written in a clear and simple style this textbook on fluid mechanics gives equal emphasis to both geophysical and engineering fluid mechanics for physicists it contains chapters on geophysical fluid mechanics and gravity waves for engineers it has chapters on aerodynamics and compressible flow of common interest are chapters on governing equations laminar flows boundary layers instability and turbulence this book also presents topics of recent interest such as deterministic chaos and double diffusive instability n gives equal treatment to topics in both engineering and geophysical fluid dynamics n suitable as an intermediate or graduate course textbook for students in their senior year or above n treats topics of recent interest such as deterministic chaos double diffusive instability and soliton n extensively illustrated n contains fully worked examples in each chapter as well as end of chapter problems n an instructor s manual is available

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