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written with the second year engineering students of undergraduate level in mind this well set out textbook explains the fundamentals of fluid mechanics written in question answer form the book is precise and easy to understand the book presents an e

fundamentals of fluid mechanics 9th edition offers comprehensive topical coverage with varied examples and problems application of the visual component of fluid mechanics and a strong focus on effective learning the authors have designed their presentation to enable

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this textbook provides a coherent and structured overview of fluid mechanics a discipline concerned with many natural phenomena and at the very heart of the most diversified industrial applications and human activities the balance between phenomenological analysis physical conceptualization and mathematical formulation serve both as a unifying educational marker and as a methodological guide to the three parts of the work the thermo mechanical motion equations of a homogeneous single phase fluid are established from which flow models perfect fluid viscous and motion classes isovolume barotropic irrotational etc are derived incompressible potential flows and compressible flows both in an isentropic evolution and shock of an ideal inviscid fluid are addressed in the second part the viscous fluid is the subject of the last one with the creeping motion regime and the laminar dynamic and thermal boundary layer historical perspectives are included whenever they enrich the understanding of modern concepts many examples chosen for their pedagogical relevance are dealt with in exercises the book is intended as a teaching tool for undergraduate students wishing to acquire a first command of fluid mechanics as well as graduates in advanced courses and engineers in other fields concerned with completing what is sometimes a scattered body of knowledge

accompanying cd rom contains full text review problems extended laboratory problems links to fluids phenomena videos and key words

and topics linked directly to where those concepts are explained in the text

this students solutions manual accompanies the main text each concept of fluid mechanics is considered in the book in simple circumstances before more complicated features are introduced the problems are presented in a mixture of si and us standard units

munson young and okiishi s fundamentals of fluid mechanics is intended for undergraduate engineering students for use in a first course on fluid mechanics building on the well established principles of fluid mechanics the book offers improved and evolved academic treatment of the subject each important concept or notion is considered in terms of simple and easy to understand circumstances before more complicated features are introduced the presentation of material allows for the gradual development of student confidence in fluid mechanics problem solving this international adaptation of the book comes with some new topics and updates on concepts that clarify enhance and expand certain ideas and concepts the new examples and problems build upon the understanding of engineering applications of fluid mechanics and the edition has been completely updated to use si units

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master fluid mechanics with the 1 text in the field effective pedagogy everyday examples an outstanding collection of practical problems these are just a few reasons why munson young and okiishi s fundamentals of fluid mechanics is the best selling fluid mechanics text on the market in each new edition the authors have refined their primary goal of helping you develop the skills and confidence you need to

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this text is an unbound binder ready edition fundamentals of fluid mechanics is the best selling fluid mechanics text for a reason it offers comprehensive topical coverage with varied examples and problems application of the visual component of fluid mechanics and a strong focus on effective learning to help students connect theory to the physical world the text enables the gradual development of 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 this latest edition includes new problem types an increased number of real world photos and additional videos to augment the text material and help support visualization skill building and engage users more deeply with the material and concepts when adopted along with the text wileyplus access to wileyplus sold seperately further helps build students confidence because it takes the guesswork out of studying by providing students a clear roadmap what to do how to do it if they did it right with wileyplus students take more initiative so instructors will have a greater impact

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