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Written for courses in Fluid Mechanics in Civil and Mechanical Engineering, this text covers the fundamental principles of fluid mechanics, as well as specialist topics in more depth. The fundamental material relates to all engineering disciplines that require fluid mechanics. As in previous editions this book demonstrates the link between theory and practice with excellent examples and computer programs. The programs help students perform 3 types of calculations; relatively simple calculations, calculations designed to provide solutions for steady state system operation, and unsteady flow simulations.

The previous three editions have established Fluid Mechanics as the key textbook in its field. This fourth edition continues to offer the reader an excellent and comprehensive treatment of the essentials of what is a truly cross-disciplinary subject, while also providing in-depth treatment of selected areas. This book is suitable for all students of civil, mechanical, chemical, environmental and building services engineering. The fourth edition retains the underlying philosophy of the previous editions - guiding the reader from the general to the particular, from fundamentals to specialist applications - for a range of flow conditions from bounded to free surface and steady to time dependent. The basic building block' equations are identified and their development and application to problems of considerable engineering concern are demonstrated and discussed. The fourth edition of Fluid Mechanics includes: - end of chapter summaries outlining all essential concepts, - an entirely new chapter on the simulation of unsteady flow conditions, from free surface to air distribution networks, - enhanced treatment of dimensional analysis and similarity and an introduction to the fundamentals of CFD, - worked examples backed up by self assessment questions and a comprehensive downloadable Solutions Manual, - a completely new series of computer simulations on CD-ROM covering the entire range of the text, thereby supporting student centered learning. Fluid Mechanics is ideal for use throughout a first degree course in all disciplines where an understanding of this subject is essential to the student. It is also suitable for conversion MSc courses requiring a fundamental treatment of fluid mechanics and will be a valuable resource for specialist Continuing Professional Development courses, including those offered by Distance Learning. Authors Dr. John Douglas formerly of South Bank University, London. Dr. Janusz Gasiorek, formerly of South Bank University, London where he led the Fluid Mechanics group in Mechanical Engineering, with specialist research interest in protodynamic machinery and fan engineering. Professor John Swaffield, Heriot-Watt University, has taught Fluid Mechanics for 30 years with specialist research interests in pressure transients, free surface unsteady flows and water conservation.

Mechanics of Machines uses applications and numerical examples that offer a realistic appreciation of actual system parameters and performance. Its logical two-part organization allows the individual principles to be readily identified and systematically studied. And as a

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