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This textbook offers a unique introduction to hydraulics and fluid mechanics through more than 100 exercises, with guided solutions, which students will find valuable in preparation for their preliminary or qualifying exams and for testing their grasp of the subject. In some exercises two different solution methods are proposed, to highlight the fact that the level of complexity of the calculations is often linked to the choice of method, though in most cases only the simplest method is presented. The exercises are organized by subject, covering forces on planes and curved surfaces; floating bodies; exercises that require the application of linear and angular momentum balancing in inertial and non-inertial references; pipeline systems, with particular applications to industrial plants; hydraulic systems with machines (pumps and turbines); transient phenomena in pipelines; and uniform and gradually varied flows in open channels. The book also features appendices that contain selected data and formulas of practical interest. Instructors of courses that address one or all of the above topics will find the exercises of great help in preparing their courses, while researchers will find the book useful as an accessible summary of the topics covered.

Hydraulics and Fluid Mechanics is a collection of papers from the Proceedings of the First Australian Conference held at the University of Western Australia on December 6-13, 1962 at Nedlands, Australia. This book deals with the science of hydraulics and fluid mechanics in their practical uses in industry and research. In special situations when high-pressure oil is used in mechanical equipment, hydraulic lock is preferred for valve control. This book reviews the pressure drop in the pneumatic transfer of granular solids in a pipe where a formula is derived to determine the pressure drop when using either a straight or bent pipe. This text also discusses the improvements on the cavitation performance of flow pumps by using prerotation at design points. The construction of a dam in Tasmania provides another study on the behavior of rock-fill slopes subjected to seepage. Here, the book analyzes the hydraulic forces acting on the rock particles, and explains theories on the derivation of the dynamic equation for spatially varied flow with

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increasing discharge on a steep slope. The book also examines the concept of critical depth in spatially varied flow with increasing discharge on a steep slope. This book investigates the use of a computer model designed to determine the methods of draining flooded farmlands either through hydraulically or electrically operated drainage systems. This text also evaluates the cost of constructing a project. This collection is suitable for people in the field of applied mathematics, physics, and engineering.

The popularity of all the earlier thirteen editions of the book among the students as well as the teachers has made it possible to bring out the fourteenth edition of the book so soon. In this edition the book has been brought out in A-4 size thereby considerably enhancing the general get-up of the book. The book in this fourteenth edition is entirely in SI Units and it has been thoroughly revised in the light of the valuable suggestions received from the learned professors and the students of the various Universities. Accordingly several new articles have been added. The answers of all the illustrative examples and the problems have been checked and corrected. Moreover, several new problems from the latest question papers of the different Universities as well as competitive examinations have been incorporated. Thus, it may be emphatically stated that the book is complete in all respects and it covers the entire syllabus in the subject for degree students in the different branches of engineering for almost all the Universities. Therefore this Single Book fulfills the entire needs of the students intending to appear at the various University Examinations and also for those intending to appear at the various competitive examination such as engineering services and the ICS examinations and for those preparing for AMIE examinations. **OUTSTANDING FEATURES** " Twenty nine chapters covering entire subject matter of Fluid Mechanics, Hydraulics and Hydraulic Machines. " SI Units used for the entire book " More than 200 multiple choice questions with answers " Appendix containing computer programs to solve problems of uniform and critical flows in open channels. " Ten appendixes dealing with some important topics.

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