

## Understanding Hydraulics Les Hamill

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covering all the fundamental topics in hydraulics and hydrology this textbook is an accessible thorough and trusted introduction to the subject the text builds confidence by encouraging readers to work through examples try simple experiments and continually test their own understanding as the book progresses this hands on approach aims to show students just how interesting hydraulics and hydrology is as well as providing an invaluable reference resource for practising engineers there are numerous worked examples self test and revision questions to help students solve problems and avoid mistakes and a question and answer feature to keep students thinking and engaging with the text the text is essential reading for undergraduates from pre degree through all undergraduate level courses and for practising engineers around the world new to this edition updates on climate change flood risk management flood alleviation design considerations when developing greenfield sites and the design of storm water sewers a new chapter on sustainable storm water management referred to as sustainable drainage systems suds in the uk including their advantages and disadvantages the design of components such as permeable and porous pavements swales soakaways and detention ponds and flood routing through storage reservoirs

this is an introductory guide to the basic principles of hydraulics with an explanation of the essential theory which should be ideal for student centred learning it should appeal to any student embarking

on a course in fluid mechanics having no previous knowledge of the subject

a comprehensive guide to full time degree courses institutions and towns in Britain

This book provides an up to date coverage of the basic principles of soil mechanics for undergraduate and equivalent students of civil engineering and geotechnics structural engineers foundation environmental and mining engineers and engineering geologists will also find it an invaluable source of reference the main aims are to provide the reader with a good understanding of the nature of soil an appreciation of soil behaviour and insight into how the principles are applied in the practical engineering context it is the author's view that in addition to having a sound knowledge of the scientific and mathematical aspects of soil mechanics a fully trained geotechnical engineer also requires a knowledge of geology soil profiles and groundwater conditions more emphasis is therefore placed on the application of soil mechanics in the ground rather than on the behaviour of soils in the artificial environment of the laboratory there are many detailed and instructive line illustrations included in all chapters together with useful and informative tabular data worked examples appear in most chapters and there are numerous self test problems with answers provided

The design of bridges across rivers and streams is a major component of many civil engineering projects the size of waterways must be kept reasonably small for reasons of economy and yet be large enough to allow floods to pass bridge hydraulics is the first book to consider both arched and rectangular waterway openings in detail and to describe all of the main methods of analysis with clear examples and relevant case studies using both laboratory models and full size bridges in the field it is not only a thorough and accessible introduction to bridge hydraulics but also a guide that will enable engineers to produce authoritative analyses and more effective designs

Publisher's note products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product proven methods for preventing and mitigating bridge and highway flood scour offering detailed guidelines on bridge scour countermeasures this comprehensive resource provides a proactive strategy for the design and construction of bridges to prevent scour as well as a reactive plan for post flood disaster management topics discussed include erosion causes of scour AASHTO design codes hydrology hydraulics scour analysis inspection methods and modern materials technology real world case studies illustrate the concepts presented the authoritative information in this practical guide will help you to develop more efficient and cost effective design processes and bridge management systems for river bridges subjected to floods flood scour for bridges and highways covers floods scour problems and mitigation river instability caused by flow obstructions past failures and bridges vulnerable to failure geotechnical and hydraulic issues at scour critical rivers and bridges hydrology floods and scour critical bridges estimating scour depths and selecting applicable countermeasures inspections ratings and monitoring countermeasures FHWA HEC 18 and HEC 23 scour countermeasures as remediation innovative methods of flood control and disaster management

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