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Civil FE/PE Exam - Water Resources - How to Solve for the Hydraulic Radius of an Open ChannelCivil Engineering Hydraulics Featherstone R

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An update of a classic textbook covering a core subject taught on most civil engineering courses.Civil Engineering Hydraulics, 6th edition contains substantial worked example sections with an online solutions manual. This classic text provides a succinct introduction to the theory of civil engineering hydraulics, together with a large number of worked examples and exercise problems. Each chapter contains theory sections and worked examples, followed by a list of recommended reading and references. There are further problems as a useful resource for students to tackle, and exercises to enable students to assess their understanding. The numerical answers to these are at the back of the book, and solutions are available to download from the books companion website.

This thorough update of a well-established textbook covers a core subject taught on every civil engineering course. Now expanded to cover environmental hydraulics and engineering hydrology, it has been revised to reflect current practice and course requirements. As previous editions, it includes substantial worked example sections with an on-line solution manual. A strength of the book has always been in its presentation these exercises which has distinguished it from other books on hydraulics, by enabling students to test their understanding of the theory and of the methods of analysis and design. Civil Engineering Hydraulics provides a succinct introduction to the theory of civil engineering hydraulics, together with a large number of worked examples and exercise problems with answers. Each chapter includes a worked example section with solutions; a list of recommended reading; and exercise problems with answers to enable students to assess their understanding. The book will be invaluable throughout a student's entire course – but particularly for first and second year study, and will also be welcomed by practising engineers as a concise reference.

This is an update of a classic textbook covering a core subject taught on most civil engineering courses. The sixth edition contains substantial worked example sections with an online solutions manual.

Water and ground bioengineering techniques combine the expertise of civil engineers, landscape architects, botanists and ecologists, and increasingly are being used to protect and restore the natural environment. This practical handbook shows how vegetation can be used for the protection, stabilisation and ecological enhancement of riverbanks and shores. It covers a range of techniques from wholly vegetative 'soft' techniques to 'semi-hard' or composite structures with vegetative inclusions. A chapter on bioengineering techniques in earth dam and floodbank construction is also included. Together with its companion book, Ground Bioengineering Techniques, this handbook on water bioengineering provides a rare opportunity to gain insight into the approach of its chief proponents--Professor H.M. Schiechl and his colleague, Dr R. Stern--in the use of vegetation for the engineering and ecological and visual enhancement of waterways and shorelines. Water Bioengineering Techniques will be of interest to geotechnical engineers, botanists, ecologists and to those concerned with landscape planning, land and catchment management.

Now includes Worked Examples for lectutrers in a companion pdf! The fourth edition of this volume presents design principles and practical guidance for key hydraulic structures. Fully revised and updated, this new edition contains enhanced texts and sections on: environmental issues and the World Commission on Dams partially saturated soils, small amenity dams, tailing dams, upstream dam face protection and the rehabilitation of embankment dams RCC dams and the upgrading of masonry and concrete dams flow over stepped spillways and scour in plunge pools cavitation, aeration and vibration of gates risk analysis and contingency planning in dam safety small hydroelectric power development and tidal and wave power wave statistics, pipeline stability, wave–structure interaction and coastal modelling computational models in hydraulic engineering. The book's key topics are explored in two parts - dam engineering and other hydraulic structures – and the text concludes with a chapter on models in hydraulic engineering. Worked numerical examples supplement the main text and extensive lists of references conclude each chapter. Hydraulic Structures provides advanced students with a solid foundation in the subject and is a useful reference source for researchers, designers and other professionals.

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Notes For the First Year Lecture Course : An Introduction to Fluid MechanicsBy Dr Andrew Sleigh

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