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Stream Hydrology An Introduction for Ecologists John Wiley and Sons **Since the publication of the first edition (1994) there have been rapid developments in the application of hydrology, geomorphology and ecology to stream management. In particular, growth has occurred in the areas of stream rehabilitation and the evaluation of environmental flow needs. The concept of stream health has been adopted as a way of assessing stream resources and setting management goals. Stream Hydrology: An Introduction for Ecologists Second Edition documents recent research and practice in these areas. Chapters provide information on sampling, field techniques, stream analysis, the hydrodynamics of moving water, channel form, sediment transport and commonly used statistical methods such as flow duration and flood frequency analysis. Methods are presented from engineering hydrology, fluvial geomorphology and hydraulics with examples of their biological implications. This book demonstrates how these fields are linked and utilised in modern, scientific river management.**

*** Emphasis on applications, from collecting and analysing field measurements to using data and tools in stream management. * Updated to include new sections on environmental flows, rehabilitation, measuring stream health and stream classification. * Critical reviews of the successes and failures of implementation. * Revised and updated windows-based AQUAPAK software. This book is essential reading for 2nd/3rd year undergraduates and postgraduates of hydrology, stream ecology and fisheries science in Departments of Physical Geography, Biology, Environmental Science, Landscape Ecology, Environmental Engineering and Limnology. It would be valuable reading for professionals working in stream ecology, fisheries science and habitat management, environmental consultants and engineers.**

Solution of Problems in Fluid Mechanics Solving

Problems in Fluid Mechanics [Prentice Hall](#) Taking a practical approach, and assuming only an elementary knowledge of mathematics, this book provides answers to a range of common problems in fluid mechanics. **Fluid Mechanics** [Pearson Education India](#) **Fluid Mechanics And Machinery** [New Age International](#) **This Book Presents A Thorough And Comprehensive Treatment Of Both The Basic As Well As The More Advanced Concepts In Fluid Mechanics. The Entire Range Of Topics Comprising Fluid Mechanics Has Been Systematically Organised And The Various Concepts Are Clearly Explained With The Help Of Several Solved Examples. Apart From The Fundamental Concepts, The Book Also Explains Fluid Dynamics, Flow Measurement, Turbulent And Open Channel Flows And Dimensional And Model Analysis. Boundary Layer Flows And Compressible Fluid Flows Have Been Suitably Highlighted. Turbines, Pumps And Other Hydraulic Systems Including Circuits, Valves, Motors And Ram Have Also Been Explained. The Book Provides 225 Fully Worked Out Examples And More Than 1600 Questions Including Numerical Problems And Objective Questions. The Book Would Serve As An Exhaustive Text For Both Undergraduate And Post- Graduate Students Of Mechanical, Civil And Chemical Engineering. Amie And Competitive Examination Candidates As Well As Practising Engineers Would Also Find This Book Very Useful. Landslides Investigation and Monitoring** [BoD - Books on Demand](#) **Landslides - Investigation and Monitoring offers a comprehensive overview of recent developments in the field of mass movements and landslide hazards. Chapter authors use in situ measurements, modeling, and remotely sensed data and methods to study landslides. This book provides a thorough overview of the latest efforts by international researchers on landslides and opens new possible research directions for further novel developments. Wave and Tidal Energy** [John Wiley & Sons](#) **A comprehensive text covering all aspects of wave and tidal energy** **Wave and Tidal Energy provides a comprehensive and self-contained review of the developing marine renewable energy sector, drawing from the latest research and from the experience of device testing. The book has a twofold objective: to provide an overview of wave and tidal energy suitable for newcomers to the field and to serve as a reference text for advanced study and practice. Including detail on key issues such as resource characterisation, wave and tidal technology, power systems, numerical and physical modelling, environmental impact and policy. The book also includes an up-to-date review of developments worldwide and case studies of selected projects. Key features: A comprehensive and self-contained text covering all aspects of the multidisciplinary fields of wave and tidal energy. Draws upon the latest research in wave and tidal energy and the experience of leading practitioners in numerical and laboratory modelling. Regional developments worldwide are reviewed and representative projects are presented as case studies. Wave and Tidal Energy is an invaluable resource to a wide range of readers, from engineering students to technical managers and policymakers to postgraduate students and researchers. The Analysis of Tidal Stream**

Power [John Wiley & Sons](#) This text integrates a wide range of research and tidal resource theory and data to present a detailed analysis of the physics and oceanography of tidal stream power devices together with a world wide resource analysis. Clearly structured throughout the book is divided into two distinct parts. Part One provides the theoretical background to the subject and deals with the historical development of the harmonic method for the synthesis of tidal currents; the principles of fluid and tidal flow and the principles of device ducts, turbines and electrical systems. A review and analysis of more than forty tidal stream power proposals is also discussed. Part Two provides a comprehensive overview of current practice. The economic modelling of tidal stream power installations is covered with more than three hundred current meter records from around the world used to analyse the potential and cost of tidal stream power on a global basis. **Hallmark Features:** reviews the tidal resources around the world complete analysis of tidal stream power systems includes historical information on tidal science and biographical information on major figures concentrates on engineering physical geography rather than engineering specifics includes a website with a wide range of computer models, data and simulations **Integrating Social Media into Information Systems Requirements, Gaps, and Potential Solutions** [Rand Corporation](#) This report examines the technical challenges associated with incorporating bulk, automated analysis of social media information into procedures for vetting people seeking entry into the United States. The authors identify functional requirements and a framework for operational metrics for the proposed social media screening capabilities and provide recommendations on how to implement those capabilities. **Energy Science Principles, Technologies, and Impacts** [Oxford University Press](#) Covering both traditional and renewable energy sources, the book encourages the reader to evaluate different energy sources on the basis of sound quantitative understanding. **Solution of Problems in Fluid Mechanics A Problem-based Textbook Innovations in Micro Irrigation Technology** [CRC Press](#) The tenth and final volume in the series **Research Advances in Sustainable Micro Irrigation**, this valuable book focuses on new and recent innovations in technology, methods, and applications for micro irrigation. The book covers a wide variety of topics, including successes in micro irrigation in India, how new methods have helped the local economies in several areas, ways to enhance crop yield through new building programs, and new technology and systems. It looks at different aspects of these new innovations in micro irrigation, including economic impact, evaluation methods, bubbler systems, success with particular crops, scheduling, and more. This book is sure to be a helpful resource for professionals and practitioners in the field as well as for students pursuing the field of agriculture. **Ultra-Large Aircraft, 1940-1970 The Development of Guppy and Expanded Fuselage Transports** [McFarland](#) In 1962, a unique transport aircraft was built from the parts of 27 Boeing B-377 airliners to provide NASA a means of transporting rocket boosters. With an interior the size of a gymnasium, "The Pregnant

Guppy" was the first of six enormous cargo planes built by Aero Spacelines and two built by Union de Transport Aeriens. More than half a century later, the last Super Guppy is still in active service with NASA and the design concept has been applied to next-generation transports. This comprehensive history of expanded fuselage aircraft begins in the 1940s with the military's need for a long-range transport. The author examines the development of competing designs by Boeing, Convair and Douglas, and the many challenges and catastrophic failures. Behind-the-scenes maneuvers of financiers, corporate raiders, mobsters and other nefarious characters provide an inside look at aviation development from the drawing board to the scrap yard. *Fluid Mechanics* Addison-Wesley Longman Limited This text is written entirely in SI (metric) units. For courses in Fluid Mechanics in Civil and Mechanical Engineering departments, the text consistently emphasizes the importance of a fundamental understanding of the principles of fluid mechanics, while covering specialist topics in more depth. *Introduction to Aircraft Flight Mechanics Performance, Static Stability, Dynamic Stability, Classical Feedback Control, and State-space Foundations* American Institute of Aeronautics & Astronautics Suitable for use in undergraduate aeronautical engineering curricula, this title is written for those first encountering the topic by clearly explaining the concepts and derivations of equations involved in aircraft flight mechanics. It also features insights about the A-10 based upon the author's career experience with this aircraft. *Introduction to Unmanned Aircraft Systems, Second Edition* CRC Press The proliferation of technological capability, miniaturization, and demand for aerial intelligence is pushing unmanned aerial systems (UAS) into the realm of a multi-billion dollar industry. This book surveys the UAS landscape from history to future applications. It discusses commercial applications, integration into the national airspace system (NAS), System function, operational procedures, safety concerns, and a host of other relevant topics. The book is dynamic and well-illustrated with separate sections for terminology and web-based resources for further information. *An Introduction to Numerical Methods and Analysis* John Wiley & Sons Praise for the First Edition ". . . outstandingly appealing with regard to its style, contents, considerations of requirements of practice, choice of examples, and exercises." —Zentrablatt Math ". . . carefully structured with many detailed worked examples . . ." —The Mathematical Gazette ". . . an up-to-date and user-friendly account . . ." —Mathematika *An Introduction to Numerical Methods and Analysis* addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations

using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis. Solving Problems in Fluid Mechanics Understanding Hydraulics [Bloomsbury Publishing](#) 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. Fluid Mechanics [Academic Press](#) Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations—whether in the liquid or gaseous state or both—is introduced and comprehensively covered in this widely adopted text. Revised and updated by Dr. David Dowling, Fluid Mechanics, 5e is suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level. Along with more than 100 new figures, the text has been reorganized and consolidated to provide a better flow and more cohesion of topics. Changes made to the book's pedagogy in the first several chapters accommodate the needs of students who have completed minimal prior study of fluid mechanics. More than 200 new or revised end-of-chapter problems illustrate fluid mechanical principles and draw on phenomena that can be observed in everyday life Chemical Engineering Design Principles, Practice and Economics of Plant and Process Design [Elsevier](#) Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes

and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors The employment on Offshore Drilling Platforms COMPLETE eBook [Petrogav International](#) This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 306 video movies for a better

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administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations. 273 technical questions and answers for job interview Offshore Drilling Rigs [Petrogav International](#) The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 280 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. Aeronautical Engineer's Data Book [Elsevier](#) Aeronautical Engineer's Data Book is an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. Quick reference to essential data Most up to date information available Numerical Analysis [Cengage Learning](#) This well-respected text gives an introduction to the theory and application of modern numerical approximation techniques for students taking a one- or two-semester course in numerical analysis. With an accessible treatment that only requires a calculus prerequisite, Burden and Faires explain how, why, and when approximation techniques can be expected to work, and why, in some situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. The first book of its kind built from the ground up to serve a diverse undergraduate audience, three decades later Burden and Faires remains the definitive introduction to a vital and practical subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Space Vehicle Design [AIAA](#) How to get a job on Offshore Drilling Rigs [Petrogav International](#) This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses

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