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for pump selection, extensive references to Hydraulic Institute Standards and much more!

Pumping Station Design, 3e is an essential reference for all professionals. From the expert city engineer to the new design officer, this book assists those who need to apply the fundamentals of various disciplines and subjects in order to produce a well-integrated pumping station that is reliable, easy to operate and maintain, and free from design mistakes. The depth of experience and expertise of the authors, contributors, and peers reviewing the content as well as the breadth of information in this book is unparalleled, making this the only book of its kind. * An award-winning reference work that has become THE standard in the field * Dispenses expert information on how to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes * 60% of the material has been updated to reflect current standards and changes in practice since the book was last published in 1998 * New material added to this edition includes: the latest design information, the use of computers for pump selection, extensive references to Hydraulic Institute Standards and much more!

Pumping Station Design, Second Edition shows how to apply the fundamentals of various disciplines and subjects to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes. In a field where inappropriate design can be extremely costly for any of the foregoing reasons, there is simply no excuse for not taking expert advice from this book. The content

of this second edition has been thoroughly reviewed and approved by many qualified experts. The depth of experience and expertise of each contributor makes the second edition of Pumping Station Design an essential addition to the bookshelves of anyone in the field.

This award-winning book is written for a variety of professionals: the expert and the beginner in the design office, members of a design team, the city engineer or chief engineer of a water or sewerage authority (or their subordinates) who may review plans and specifications, and manufacturers and their representatives who should know how their equipment will be used in practice. The depth of experience and expertise of the authors, contributors, and peers reviewing the content is unparalled. Pumping Station Design, 3rd is essential for professionals who will apply the fundamentals of various disciplines and subjects in order to produce a well-integrated pumping station which will be reliable, easy to operate and maintain, and free from design mistakes. Inappropriate design can be costly and there simply is no excuse for not taking expert advice from the pages of this book. An award-winning reference work that has become THE standard in the field; Dispenses expert information on how to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes; Multi-contributed tome providing expert advice that has gone through a peer review process

Working Guide to Pumps and Pumping Stations: Calculations and Simulations discusses the application

of pumps and pumping stations used in pipelines that transport liquids. It provides an introduction to the basic theory of pumps and how pumps are applied to practical situations using examples of simulations, without extensive mathematical analysis. The book begins with basic concepts such as the types of pumps used in the industry; the properties of liquids; the performance curve; and the Bernoullis equation. It then looks at the factors that affect pump performance and the various methods of calculating pressure loss in piping systems. This is followed by discussions of pump system head curves; applications and economics of centrifugal pumps and pipeline systems; and pump simulation using the software PUMPCALC. In most cases, the theory is explained and followed by solved example problems in both U.S. Customary System (English) and SI (metric) units. Additional practice problems are provided in each chapter as further exercise. This book was designed to be a working guide for engineers and technicians dealing with centrifugal pumps in the water, petroleum, oil, chemical, and process industries. Calculations for their selection, sizing and power output Case studies based on the author's 35 years of field experience Covers all types of pumps Simplified models and simulations

Completely up-to-date coverage of water treatment facility design and operation This Second Edition of Susumu Kawamura's landmark volume offerscomprehensive coverage of water treatment facility design, from thebasic principles to the latest innovations. It covers a broadspectrum of water treatment process designs in detail and offersclear

guidelines on how to choose the unit, process, and equipmentthat will maximize overall efficiency and minimize maintenancecosts. This book also explores many important operational issuesthat affect today's plant operators and facility designers. This new edition introduces several new subjects, including valueengineering, watershed management, dissolved air flotation process,filtered reservoir (clearwell) design, and electrical systemdesign. It provides expanded and updated coverage of objectives forfinished water quality, instrumentation and control, disinfectionprocess, ozonation, disinfection by-product control, the GACprocess, and the membrane filtration process. Other importantfeatures of this Second Edition include: * Practical guidance on the design of every water treatment plantcomponent * New information on plant layout, cost estimation, sedimentationissues, and more * English and SI units throughout * Help in designing for compliance with water treatment-relatedgovernment regulations Supplemented with hundreds of illustrations, charts, and tables,Integrated Design and Operation of Water Treatment Facilities,Second Edition is an indispensable, hands-on resource for civilengineers and managers, whether working on new facilities orredesigning and rebuilding existing facilities.

Centrifugal Pumps describes the whole range of the centrifugal pump (mixed flow and axial flow pumps are dealt with more briefly), with emphasis on the development of the boiler feed pump. Organized into 46 chapters, this book discusses the general hydrodynamic principles, performance, dimensions, type number, flow, and efficiency of centrifugal

pumps. This text also explains the pumps performance; entry conditions and cavitation; speed and dimensions for a given duty; and losses. Some chapters further describe centrifugal pump mechanical design, installation, monitoring, and maintenance. The various types and applications of pumps in the light of the particular design features involved are addressed in other chapters. This book is authoritative, informative, and thought-provoking to an exceptional extent. It establishes a notable advance in the progress of the art of the designer and manufacturer of centrifugal pumps, to the material advantage of the user.

The new edition of this thoroughly considered textbook provides a reliable, accessible and comprehensive guide for students of photovoltaic applications and renewable energy engineering. Written by a group of award-winning authors it is brimming with information and is carefully designed to meet the needs of its readers. Along with exercises and references at the end of each chapter, it features a set of detailed technical appendices that provide essential equations, data sources and standards. The new edition has been fully updated with the latest information on photovoltaic cells, modules, applications and policy. Starting from basics with 'The Characteristics of Sunlight' the reader is guided step-by-step through semiconductors and p-n junctions; the behaviour of solar cells; cell properties and design; and PV cell interconnection and module fabrication. The book covers stand-alone photovoltaic systems; specific purpose photovoltaic systems; remote area power supply systems; grid-connected

photovoltaic systems and water pumping. Applied Photovoltaics is highly illustrated and very accessible, providing the reader with all the information needed to start working with photovoltaics.

As requirements engineering continues to be recognized as the key to on-time and on-budget delivery of software and systems projects, many engineering programs have made requirements engineering mandatory in their curriculum. In addition, the wealth of new software tools that have recently emerged is empowering practicing engineers to improve their requirements engineering habits. However, these tools are not easy to use without appropriate training. Filling this need, Requirements Engineering for Software and Systems, Second Edition has been vastly updated and expanded to include about 30 percent new material. In addition to new exercises and updated references in every chapter, this edition updates all chapters with the latest applied research and industry practices. It also presents new material derived from the experiences of professors who have used the text in their classrooms. Improvements to this edition include: An expanded introductory chapter with extensive discussions on requirements analysis, agreement, and consolidation An expanded chapter on requirements engineering for Agile methodologies An expanded chapter on formal methods with new examples An expanded section on requirements traceability An updated and expanded section on requirements engineering tools New exercises including ones suitable for research projects Following in the footsteps of its bestselling predecessor, the text

illustrates key ideas associated with requirements engineering using extensive case studies and three common example systems: an airline baggage handling system, a point-of-sale system for a large pet store chain, and a system for a smart home. This edition also includes an example of a wet well pumping system for a wastewater treatment station. With a focus on software-intensive systems, but highly applicable to non-software systems, this text provides a probing and comprehensive review of recent developments in requirements engineering in high integrity systems.

Urban Drainage has been thoroughly revised and updated to reflect changes in the practice and priorities of urban drainage. New and expanded coverage includes: Sewer flooding The impact of climate change Flooding models The move towards sustainability Providing a descriptive overview of the issues involved as well as the engineering principles and analysis, it draws on real-world examples as well as models to support and demonstrate the key issues facing engineers dealing with drainage issues. It also deals with both the design of new drainage systems and the analysis and upgrading of existing infrastructure. This is a unique and essential textbook for students of water, environmental, and public health engineering as well as a valuable resource for practising engineers.