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A major revision of McGraw-Hill's classic handbook that provides practical data and know-how on the design, application, specification, purchase, operation, troubleshooting, and maintenance of pumps of every type. It is an essential working tool for engineers in a wide variety of industries all those who are pump specialists, in addition to those who need to acquaint themselves with pump technology. Contributed to by over 75 distinguished professionals and specialists in each and every area of practical pump technology.

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.

The book addresses the interdisciplinary area of water quality monitoring and binds together interests and competences within sensing technology, system behaviour, business needs, legislation, education, data handling, and artificial response algorithms.

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Solar power for pumping groundwater has a vast potential for improving the sustainability of water supply schemes. However experience also shows that a lack of knowledge, capacity and expertise to design and implement such schemes is holding back their adoption. This book bridges this gap to equip engineers and technicians with the requisite knowledge for design, implementation and operation of sustainable solar powered water schemes.Solar Pumping for Water Supply is a state of the art review of solar water pumping technology combined with practical insights, lessons and best practices drawn from experience. It takes the reader step by step through the different phases that comprise a solar water pumping project, namely: assessment, design, purchase of equipment, installation, operation and management. The book also covers the economics of using solar pumping technology, especially when compared to diesel generators and hand pumps. Finally, the social aspects are included, specifically relating to the operation and management of solar pumping systems and the role that beneficiaries, implementers, government and the private sector might play to ensure long-lasting water supply. The book provides links and references to tools, documents and videos to accompany the content of the different chapters.Essential reading for solar technical practitioners at NGOs, UN agencies, government offices and private sector, including Global and Regional Technical advisors and field engineers wanting to understand and know how to design water systems using solar power. A basic knowledge in the field of water supply is assumed, but no previous knowledge of solar photovoltaic technology is required.Alberto Ibáñez Llario is a Global Solar and Water Advisor with the International Organization for Migration and has 15 years of experience in water systems and solar PV in various locations around the world.Asenath Kiprono is a solar water pumping expert with 12 years' experience in design and implementation of pumping systems in rural Africa, including solar pumping systems in the private, public and humanitarian sectors.

Written by an experienced engineer, this book contains practical information on all aspects of pumps including classifications, materials, seals, installation, commissioning and maintenance. In addition you will find essential information on units, manufacturers and suppliers worldwide, providing a unique reference for your desk, R&D lab, maintenance shop or library. * Includes maintenance techniques, helping you get the optimal performance out of your pump and reducing maintenance costs * Will help you to understand seals, couplings and ancillary equipment, ensuring systems are set up properly to save time and money * Provides useful contacts for manufacturers and suppliers who specialise in pumps, pumping and ancillary equipment

Today, there is increasing pressure on the water infrastructure and although unsustainable water extraction and wastewater handling can continue for a while, at some point water needs to be managed in a way that is sustainable in the long-term. We need to handle water utilities "smarter". New and effective tools and technologies are becoming available at an affordable cost and these technologies are steadily changing water infrastructure options. The quality and robustness of sensors are increasing rapidly and their reliability makes the automatic handling of critical processes viable. Online and real-time control means safer and more effective operation. The combination of better sensors and new water treatment technologies is a strong enabler for decentralised and diversified water treatment. Plants can be run with a minimum of personnel attendance. In the future, thousands of sensors in the water utility cycle will handle all the complexity in an effective way. Smart Water Utilities: Complexity Made Simple provides a framework for Smart Water Utilities based on a M-A-D (Measurement-Analysis-Decision). This enables the organisation and implementation of "Smart" in a water utility by providing an overview of supporting technologies and methods. The book presents a an introduction to methods and tools, providing a perspective of what can and could be achieved. It provides a toolbox for all water challenges and is essential reading for the Water Utility Manager, Engineer and Director and for Consultants, Designers and Researchers. Authors: Pernille Ingildsen, Chief of Plan and Project at Kalundborg utility, Denmark and Gustaf Olsson, Professor Em. in Industrial Automation, Lund University, Sweden