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**Steel Water-storage Tanks** Amer Water Works Assn Updated from the 1998 edition, this comprehensive manual covers tank sizing, configuration, site selection, design, operation and maintenance. Current recommended guidelines and references to newer AWWA standards have been incorporated into this edition. (Replaces ISBN 9780898679779) **AWWA D120-19 Thermosetting Fiberglass-Reinforced Plastic Tanks Concrete Pressure Pipe, 3rd Ed. M9** American Water Works Association This comprehensive manual of water supply practices explains the design, selection, specification, installation, transportation, and pressure testing of concrete pressure pipes in potable water service. **Filter Troubleshooting and Design Handbook** American Water Works Association **Steel Water Storage Tanks (M42)** American Water Works Association **Awwa D107-16 Composite Elevated Tanks for Water Storage Water Treatment Operator Handbook** American Water Works Association **Water Meters--Selection, Installation, Testing, and Maintenance M6** American Water Works Association Annotation A guide to selecting, installing, testing, and maintaining water meters. Coverage includes selecting meter types, impacts on service adequacy, meter installation, testing of meters, and maintenance and repair of displacement meters. Also discusses shop layout and equipment, records, and remote registration. Includes a list of AWWA manuals. This manual discusses recommended practices; it is not an AWWA standard calling for compliance with certain specifications. Can be used by new and existing utilities of all sizes, and by design engineers and consultants. Member price \$40.00. Annotation copyrighted by Book News, Inc., Portland, OR. **Structural Analysis and Design of Process Equipment** John Wiley & Sons Still the only book offering comprehensive coverage of the analysis and design of both API equipment and ASME pressure vessels This edition of the classic guide to the analysis and design of process equipment has been thoroughly updated to reflect current practices as well as the latest ASME Codes and API standards. In addition to covering the code requirements governing the design of process equipment, the book supplies structural, mechanical, and chemical engineers with expert guidance to the analysis and design of storage tanks, pressure vessels, boilers, heat exchangers, and related process equipment and its associated external and internal components. The use of process equipment, such as storage tanks, pressure vessels, and heat exchangers has expanded considerably over the last few decades in both the petroleum and chemical industries. The extremely high pressures and temperatures involved with the processes for which the equipment is designed makes it potentially very dangerous to property and life if the equipment is not designed and manufactured to an exacting standard. Accordingly, codes and standards such as the ASME and API were written to assure safety. Still the only guide covering the design of both API equipment and ASME pressure vessels, *Structural Analysis and Design of Process Equipment, 3rd Edition: Covers the design of rectangular vessels with various side thicknesses and updated equations for the design of heat exchangers Now includes numerical vibration analysis needed for earthquake evaluation Relates the requirements of the ASME codes to international standards Describes, in detail, the background and assumptions made in deriving many design equations underpinning the ASME and API standards Includes methods for designing components that are not covered in either the API or ASME, including ring girders, leg supports, and internal components Contains procedures for calculating thermal stresses and discontinuity analysis of various components* *Structural Analysis and Design of Process Equipment, 3rd Edition is an indispensable tool-of-the-trade for mechanical engineers and chemical engineers working in the petroleum and chemical industries, manufacturing, as well as plant engineers in need of a reference for process equipment in power plants, petrochemical facilities, and nuclear facilities.* **M23 PVC Pipe Design and Installation** "This manual provides the user with both general and technical information to aid in design, procurement, installation, and maintenance of PVC pipe and fittings. This manual presents a discussion of recommended practices"-- **Quantitative Phase Imaging of Cells and Tissues** McGraw Hill Professional Cutting-edge quantitative phase imaging techniques and their applications Filled with unique, full-color images taken by advanced quantitative phase imaging (QPI), *Quantitative Phase Imaging of Cells and Tissues* thoroughly explores this innovative technology and its biomedical applications. An introductory background on optical imaging and traditional optical microscopy is included to illustrate concept development. The book explains how various visualization modalities can be obtained by numerical calculations. This authoritative resource reveals how to take full advantage of the unprecedented capabilities of QPI, such as rendering scattering properties of minute subcellular structures and nanoscale fluctuations in live cells. Coverage includes: Groundwork Spatiotemporal field correlations Image characteristics Light microscopy Holography Point scanning QPI methods Principles of full-field QPI Off-axis full-field methods Phase-shifting techniques Common-path methods White light techniques Fourier transform light scattering (FTLS) Current trends in QPI **Algae Source to Treatment** American Water Works Association This AWWA manual of practice provides water professionals with solutions to algae-related problems. Topics covered include identification of algal species, monitoring programs, and best management and treatment strategies. **Pressure Vessel Design Manual** Butterworth-Heinemann Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. *Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner*

possible. Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30 countries making it an accepted industry standard guide Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use **Water Quality and Treatment Construction Management and Design of Industrial Concrete and Steel Structures** CRC Press The recent worldwide boom in industrial construction and the corresponding billions of dollars spent every year in industrial, oil, gas, and petrochemical and power generation project, has created fierce competition for these projects. Strong management and technical competence will bring your projects in on time and on budget. An in-depth explorat **Biofilm Reactors WEF MOP 35** McGraw Hill Professional The latest Methods for Wastewater Treatment Using Fixed-Film Processes This Water Environment Federation resource provides complete coverage of pure fixed-film and hybrid treatment systems, along with details on their design, performance, and operational issues. Biofilm Reactors discusses factors that affect the design of the various processes, appropriate design criteria and procedures, modeling techniques, equipment requirements, and construction methods. Operational issues associated with each type of process are presented, including potential problems and corrective actions. Real-world case studies illustrate the application of the technologies presented in this authoritative volume. Biofilm Reactors covers: Biology of fixed-film processes Trickling filter and combined trickling filter suspended-growth process design and operation Rotating biological contactors Moving-bed biofilm reactors Hybrid processes Biological filters New and emerging fixed-film technologies Clarification Effluent filtration Development and application of models for integrated fixed-film activated sludge, moving-bed reactors, biological aerated filters, and trickling filters **Steel Water Storage Tanks: Design, Construction, Maintenance, and Repair** McGraw Hill Professional The first comprehensive steel tanks book published in more than a decade Developed by members of the American Water Works Association (AWWA) General Steel Tank Committee, Steel Water Storage Tanks: Design, Construction, Maintenance, and Repair is the most authoritative source of industry information available. This in-depth reference describes the use of steel tanks for potable water storage and includes details on tank sizes, capabilities, styles, construction, appurtenances, site selection, design, operation, maintenance, rehabilitation, inspection, and security. Complete coverage of: Tank history, typical configurations, locating, sizing, and selecting Selecting and specifying appurtenances Controlling corrosion Contractual considerations Foundations Construction of welded-steel water-storage tanks Construction of bolted-steel water-storage tanks Operation Inspecting new-tank construction Maintenance, inspection, and repair Potable water security Tank rehabilitation **Internal Combustion Engine Fundamentals** McGraw-Hill Science Engineering This text, by a leading authority in the field, presents a fundamental and factual development of the science and engineering underlying the design of combustion engines and turbines. An extensive illustration program supports the concepts and theories discussed. **Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control** McGraw Hill Professional Explore the latest power electronics principles, practices, and applications This electrical engineering guide offers comprehensive coverage of design, modeling, simulation, and control for power electronics. The book describes real-world applications for the technology and features case studies worked out in both MATLAB and Simulink. Presented in an accessible style, Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control focuses on the latest technologies, such as DC-based systems, and emphasizes the averaging technique for both simulation and modeling. You will get photos, diagrams, flowcharts, graphs, equations, and tables that illustrate each topic. Circuit components Non-isolated DC/DC conversion Power analysis DC to single-phase AC conversion Single-phase AC to DC conversion Galvanic isolated DC/DC conversion Power conversion for three-phase AC Bidirectional power conversion Averaging model for simulation Dynamic modeling of DC/DC converters Regulation of voltage and current **The Properties of Gases and Liquids** McGraw Hill Professional Must-have reference for processes involving liquids, gases, and mixtures Reap the time-saving, mistake-avoiding benefits enjoyed by thousands of chemical and process design engineers, research scientists, and educators. Properties of Gases and Liquids, Fifth Edition, is an all-inclusive, critical survey of the most reliable estimating methods in use today -- now completely rewritten and reorganized by Bruce Poling, John Prausnitz, and John O'Connell to reflect every late-breaking development. You get on-the-spot information for estimating both physical and thermodynamic properties in the absence of experimental data with this property data bank of 600+ compound constants. Bridge the gap between theory and practice with this trusted, irreplaceable, and expert-authored expert guide -- the only book that includes a critical analysis of existing methods as well as hands-on practical recommendations. Areas covered include pure component constants; thermodynamic properties of ideal gases, pure components and mixtures; pressure-volume-temperature relationships; vapor pressures and enthalpies of vaporization of pure fluids; fluid phase equilibria in multicomponent systems; viscosity; thermal conductivity; diffusion coefficients; and surface tension. **The Big Book of Makerspace Projects: Inspiring Makers to Experiment, Create, and Learn** McGraw Hill Professional Start-to-finish, fun projects for makers of all types, ages, and skill levels! This easy-to-follow guide features dozens of DIY, low-cost projects that will arm you with the skills necessary to dream up and build your own creations. The Big Book of Makerspace Projects: Inspiring Makers to Experiment, Create, and Learn offers practical tips for beginners and open-ended challenges for advanced makers. Each project features non-technical, step-by-step instructions with photos and illustrations to ensure success and expand your imagination. You will learn recyclables hacks, smartphone tweaks, paper circuits, e-textiles, musical instruments, coding and programming, 3-D printing, and much, much more! Discover how to create: • Brushbot warriors, scribble machines, and balloon hovercrafts • Smartphone illusions, holograms, and projections • Paper circuits, origami, greeting cards, and pop-ups • Dodgeball, mazes, and other interesting Scratch games • Organs, guitars, and percussion instruments • Sewed LED bracelets, art cuffs, and Arduino stuffie • Makey Makey and littleBits gadgets • Programs for plug-and-play and Bluetooth-enabled robots • 3D design and printing projects and enhancements **Water Reuse Issues, Technologies, and Applications** McGraw Hill Professional An Integrated Approach to Managing the World's Water Resources Water Reuse: Issues, Technologies, and Applications equips water/wastewater students, engineers, scientists, and professionals with a definitive account of the latest water reclamation, recycling, and reuse theory and practice. This landmark textbook presents an integrated approach to all aspects of water reuse \_ from public health protection to water quality criteria and regulations to advanced technology to implementation issues. Filled with over 500 detailed illustrations and photographs, Water Reuse: Issues, Technology, and Applications features: In-depth coverage of cutting-edge water reclamation and reuse applications Current issues and developments in public health and environmental protection criteria, regulations, and risk management Review of current advanced treatment technologies, new developments, and practices Special emphasis on process

reliability and multiple barrier concepts approach Consideration of satellite and decentralized water reuse facilities Consideration of planning and public participation of water reuse Inside This Landmark Water/Wastewater Management Tool • Water Reuse: An Introduction • Health and Environmental Concerns in Water Reuse • Technologies and Systems for Water Reclamation and Reuse • Water Reuse Applications • Implementing Water Reuse **Machine Learning and Deep Learning Using Python and TensorFlow** McGraw Hill Professional Understand the principles and practices of machine learning and deep learning This hands-on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable, using just the basic math required. Written by a pair of experts in the field, *Machine Learning and Deep Learning Using Python and TensorFlow* contains case studies in several industries, including banking, insurance, e-commerce, retail, and healthcare. The book shows how to utilize machine learning and deep learning functions in today's smart devices and apps. You will get download links for datasets, code, and sample projects referred to in the text. Coverage includes: Machine learning and deep learning concepts Python programming and statistics fundamentals Regression and logistic regression Decision trees Model selection and cross-validation Cluster analysis Random forests and boosting Artificial neural networks TensorFlow and Keras Deep learning hyperparameters Convolutional neural networks Recurrent neural networks and long short-term memory **Drinking Water Distribution Systems Assessing and Reducing Risks** National Academies Press Protecting and maintaining water distributions systems is crucial to ensuring high quality drinking water. Distribution systems -- consisting of pipes, pumps, valves, storage tanks, reservoirs, meters, fittings, and other hydraulic appurtenances -- carry drinking water from a centralized treatment plant or well supplies to consumers's taps. Spanning almost 1 million miles in the United States, distribution systems represent the vast majority of physical infrastructure for water supplies, and thus constitute the primary management challenge from both an operational and public health standpoint. Recent data on waterborne disease outbreaks suggest that distribution systems remain a source of contamination that has yet to be fully addressed. This report evaluates approaches for risk characterization and recent data, and it identifies a variety of strategies that could be considered to reduce the risks posed by water-quality deteriorating events in distribution systems. Particular attention is given to backflow events via cross connections, the potential for contamination of the distribution system during construction and repair activities, maintenance of storage facilities, and the role of premise plumbing in public health risk. The report also identifies advances in detection, monitoring and modeling, analytical methods, and research and development opportunities that will enable the water supply industry to further reduce risks associated with drinking water distribution systems. **Engineering Plastics Handbook** McGraw Hill Professional Tougher and cheaper than other materials, thermoplastic resins are used in applications ranging from aircraft frames to glass windows. This is the first authoritative source for building and evaluating new product lines. Written by a top team of international experts, this reference incorporates the chemical, mechanical, and physical data necessary to compare and evaluate existing product lines with new and emerging products. **Handbook of Solid Waste Management** McGraw Hill Professional In a world where waste incinerators are not an option and landfills are at over capacity, cities are hard pressed to find a solution to the problem of what to do with their solid waste. *Handbook of Solid Waste Management, 2/e* offers a solution. This handbook offers an integrated approach to the planning, design, and management of economical and environmentally responsible solid waste disposal system. Let twenty industry and government experts provide you with the tools to design a solid waste management system capable of disposing of waste in a cost-efficient and environmentally responsible manner. Focusing on the six primary functions of an integrated system--source reduction, toxicity reduction, recycling and reuse, composting, waste- to-energy combustion, and landfilling--they explore each technology and examine its problems, costs, and legal and social ramifications. **Water Quality & Treatment: A Handbook on Drinking Water** McGraw Hill Professional The definitive water quality and treatment resource--fully revised and updated Comprehensive, current, and written by leading experts, *Water Quality & Treatment: A Handbook on Drinking Water, Sixth Edition* covers state-of-the-art technologies and methods for water treatment and quality control. Significant revisions and new material in this edition reflect the latest advances and critical topics in water supply and treatment. Presented by the American Water Works Association, this is the leading source of authoritative information on drinking water quality and treatment. **NEW CHAPTERS ON:** Chemical principles, source water composition, and watershed protection Natural treatment systems Water reuse for drinking water augmentation Ultraviolet light processes Formation and control of disinfection by-products **DETAILED COVERAGE OF:** Drinking water standards, regulations, goals, and health effects Hydraulic characteristics of water treatment reactors Gas-liquid processes and chemical oxidation Coagulation, flocculation, sedimentation, and flotation Granular media and membrane filtration Ion exchange and adsorption of inorganic contaminants Precipitation, coprecipitation, and precipitative softening Adsorption of organic compounds by activated carbon Chemical disinfection Internal corrosion and deposition control Microbiological quality control in distribution systems Water treatment plant residuals management **Guide to Storage Tanks and Equipment** Wiley *Guide to Storage Tanks and Equipment* has been designed to provide practical information about all aspects of the design, selection and use of vertical cylindrical storage tanks. Other tanks are covered but in less detail. Although the emphasis is on practical information, basic theory is also covered. *Guide to Storage Tanks and Equipment* is a practical reference book written for specifiers, designers, constructors and users of ambient and low temperature storage tanks. The book is aimed at everyone who has technical problems as well as those wanting to know more about all aspects of tank technology and also those who want to know who supplies what, and from where. Steel storage tanks are an important and costly part of oil refineries, terminals, chemical plants and power stations. They should function efficiently and be trouble free at their maximum storage capacity to ensure that these installations can have their planned maximum production capacity. **Distillation Design** McGraw-Hill Professional Pub Providing coverage of design principles for distillation processes, this text contains a presentation of process and equipment design procedures. It also highlights limitations of some design methods, and offers guidance on how to overcome them. **Minimum Design Loads for Buildings and Other Structures Asce 7-98** Amer Society of Civil Engineers **Steel Plated Structures** Springer This volume strives to give comprehensive information about the main aspects of the behaviour and limit states of steel plated structures. In following this objective, the volume presents a complete scientific background (profiting from the fact that the authors of the individual parts of the publication have personally been very active in the corresponding fields of research for an extended period of time), but also establishes design recommendations, procedures and formulae. The significance of the volume may be seen in its challenging current concepts of the analysis of steel plated structures, encouraging progress in the field, and thereby establishing an advanced basis for a more reliable and economical design. **Water Treatment** American Water Works Association This completely updated version discusses such topics as raw water quality, treatment

options, treatment chemicals, and drinking water regulations. It includes detailed illustrations, photographs, supplemental reading lists, a glossary, and an index. **Pumping Station Design** *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. **International Plumbing Code 2015** With an emphasis on design and installation for optimum performance, the 2015 INTERNATIONAL PLUMBING CODE SOFT COVER sets forth established requirements for plumbing systems. This important reference guide includes provisions for fixtures, piping, fittings, and devices, as well as design and installation methods for water supply, sanitary drainage, and storm drainage. The 2015 edition of the code includes information on public toilet facilities, as well as water temperature limiting devices, and replacement water heater installation. Using both prescriptive- and performance-related specifications, this code provides comprehensive minimum regulations for a variety of plumbing facilities, facilitating the design and acceptance of new and innovative products, materials, and systems. **Learn Aspen Plus in 24 Hours** McGraw Hill Professional 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. This self-learning guide shows how to start using Aspen Plus to solve chemical engineering problems quickly and easily Discover how to solve challenging chemical engineering problems with Aspen Plus—in just 24 hours, and with no prior experience. Developed at McMaster University over a seven-year period, the book features visual guides to using detailed mathematical models for a wide range of chemical process equipment, including heat exchangers, pumps, compressors, turbines, distillation columns, absorbers, strippers, and chemical reactors. *Learn Aspen Plus in 24 Hours* shows, step-by-step, how to configure and use Aspen Plus v9.0 and apply its powerful features to the design, operation, and optimization of safe, profitable manufacturing facilities. You will learn how to build process models and accurately simulate those models without performing tedious calculations. Divided into 12 two-hour lessons, the guide offers downloadable Aspen Plus simulation files and visual step-by-step guides. • Contains a valuable index that lists software icons and commands used in the book • Features helpful and time-saving links to instructional videos and technical content • Instructs how to integrate your simulation with other supporting software such as Aspen Capital Cost Estimator, Aspen Energy Analyzer, and Microsoft Excel • Written by an Aspen Plus power-user and leading researcher in chemical process simulations **Concrete Microstructure, Properties, and Materials** McGraw Hill Professional This textbook presents the art and science of concrete in a simple, clear, hands-on manner. Cement and concrete are predicted to be the premier building material of the 21st Century Includes unique diagrams, photographs, and summary tables Updated to include new chapters on non-destructive methods for concrete; future challenges in concrete technology; an increased number of examples of concrete applications; and new developments in durability **Water Distribution Operator Training Handbook** Amer Water Works Assn AWWA's most popular handbook for distribution operator personnel is an indispensable reference for operators and supervisors alike on water distribution system operation and equipment. This fourth edition is based on the operator certification knowledge requirements included in the Associated Boards of Certification (ABC) Need-To-Know criteria, as well as that of several state certification boards (e.g. California, Pennsylvania, and Texas). Several new chapters cover topics that have emerged since the publication of the last edition, and others, including the regulatory overview chapter, were revised extensively. New chapters describe the management approach to distribution system operation and the operational practices operators can use to improve system performance. The disinfection of pipelines and storage facilities is now included as its own chapter. And the math calculations that distribution system operators need to know are included as concrete examples of what operators need to know. **Water Utility Management Maintenance Planning and Scheduling Handbook, 4th Edition** McGraw Hill Professional 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. The industry-standard resource for maintenance planning and scheduling—thoroughly revised for the latest advances Written by a Certified Maintenance and Reliability Professional (CMRP) with more than three decades of experience, this resource provides proven planning and scheduling strategies that will take any maintenance organization to the next level of performance. The book resolves common industry frustration with planning and reduces the complexity of scheduling in addition to dealing with reactive maintenance. You will find coverage of estimating labor hours, setting the level of plan detail, creating practical weekly and daily schedules, kitting parts, and more, all designed to increase your workforce without hiring. Much of the text applies the timeless management principles of Dr. W. Edwards Deming and Dr. Peter F. Drucker. You will learn how you can do more proactive work when your hands are full of reactive work. *Maintenance Planning and Scheduling Handbook, Fourth Edition*, features more new case studies showing real world successes, a new chapter on getting better storeroom support, major revisions that describe the best KPIs for planning, major additions to the issue of “selling” planning to gain support, revisions to make work order codes more useful, a new appendix on numerically auditing planning success, and a new appendix devoted entirely to selecting a great maintenance planner. *Maintenance Planning and Scheduling Handbook, Fourth Edition* covers: •The business case for the benefit of planning •Planning principles •Scheduling principles •Handling reactive maintenance •Planning a work order •Creating a weekly schedule•Daily scheduling and supervision •Parts and planners•The computer CMMS in maintenance•How planning works with PM, PdM, and projects •Controlling planning: the best KPIs KPIs for planning and overall maintenance •Shutdown, turnaround, overhaul, and outage management •Selling, organizing, analyzing, and auditing planning **Design of Transformers** Tata McGraw-Hill Education Currently, the installed capacity of power generation in India is 104,917 MW and by 2012 another 100,000 MW will be added. With this addition, the requirement of power and distribution transformers will grow enormously, as will the emphasis on quality and performance. The design of a transformer is critical to its quality as are men, machines and materials. This book is a hands-on guide covering design, process control of manufacturing technique, installation, erection, commissioning and maintenance of distribution transformers. It also covers failure analysis and remedial measures for increasing the longevity of transformers. Apart from explaining the design aspect of transformers, the book lists the requirements of ISO 9000 in the process of manufacturing technique up to the final stages of product testing, inspection and despatch.