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invaluable resource for becoming an expert in this field or as a single-source reference for plant control systems. Author Raymond F. Gardner is a professor of engineering at the U.S. Merchant Marine Academy at Kings Point, New York, and has been a practicing engineer for more than 40 years.

This up-to-date work on final control elements presents theoretical and practical information in an easy, conversational style, which makes it an excellent reference for experienced instrument and process engineers as well as students who are new to the field. The book begins with a basic explanation of the function and purpose of control valves, explaining the various types of valves that are available along with their features and limitations. It also provides:

- \* Directions for selecting the best valve for a given service and the right flow characteristics
- \* Simplified equations for sizing control valves for liquids and gases under normal and special conditions, such as flashing and laminar flow
- \* Directions for minimizing environmental problems, such as noise produced by turbulent or cavitating fluids and aerodynamic noise
- \* Solutions to dynamic instability problems
- \* Methods for improving control loop stability
- \* Discussion on related safety issues such as "fail-safe" action and cybersecurity

Many reference tables provide information that will be invaluable in valve selection, such as valve materials, temperature ratings, and valve dimensions. Also, for the benefit of international readers, examples and equations are presented in metric as well as U.S. customary terms and measurements.

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Following the publication of the author ' s first book, Boilers for Power and Process by CRC Press in 2009, several requests were made for a reference with even quicker access to information. Boilers: A Practical Reference is the result of those requests, providing a user-friendly encyclopedic format with more than 500 entries and nearly the same number of supporting illustrations. Written for practicing engineers and dealing with practical issues rather than theory, this reference focuses exclusively on water tube boilers found in process industries and power plants. It provides broad explanations for the following topics: A range of boilers and main auxiliaries, as well as steam and gas turbines Traditional firing techniques—grates, oil/gas, and modern systems Industrial, utility, waste heat, MSW and bio-fuel-fired boilers, including supercritical boilers The scientific fundamentals of combustion, heat transfer, fluid flow, and more The basics of fuels, water, ash, high-temperature steels, structurals, refractory, insulation, and more Additional engineering topics like boiler instruments, controls, welding, corrosion, and wear Air pollution, its abatement techniques and their effect on the design of boilers and auxiliaries Emerging technologies such as carbon capture, oxy-fuel combustion, and PFBC This reference covers almost every topic needed by boiler engineers in process and power plants. An encyclopedia by design and a professional reference book by focus and size, this volume is strong on fundamentals and design aspects as well as practical content. The scope and easy-to-navigate presentation of the material plus the numerous illustrations make this a unique reference for busy design, project, operation, and consulting

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