



Flow Measurement Handbook: Industrial Designs, Operating Principles, Performance, and Applications

By Roger C. Baker

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This volume is an information-packed reference for engineers on flow measuring techniques and instruments. Striking a balance between laboratory ideal and the realities of field experience, this handy tool provides a wealth of practical advice on the design, operation, and performance of a broad range of flowmeters. The book begins with a brief review of fluid mechanics principles, how to select a flowmeter, and a variety of calibration methods. Each of the following chapters is devoted to a class of flowmeters and includes detailed information on design, applications, installation, calibration, operation, and advantages and disadvantages. Among the flowmeters discussed are orifice plate meters, venturi meter and standard nozzles, critical flow venturi nozzles, positive displacement flowmeters, turbine and related flowmeters, vortex shedding and fluidic flowmeters, electromagnetic flowmeters, ultrasonic flowmeters, and coriolis flowmeters. Also covered are mass flow measurements using multiple sensors, thermal flowmeters, angular momentum devices, probes, and modern control systems. Many chapters conclude with an appendix on the theory behind the techniques discussed. It will be a valuable reference for practicing engineers and will also be of interest to researchers in mechanical, chemical and aerospace engineering.

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Review

"The material would appeal to anyone working with flow meters in any capacity as well as to the fluid mechanician desiring to stay current in the area of flow meters. The effort put into this text by the author is enormous, and the text itself is outstanding...an excellent addition to any reference library." Applied Mechanics Reviews

"This reference book provides a wealth of practical advice on the design, operation, and performance of a broad range of flowmeters-primarily those for bulk flow measurement of liquids and gases...This is a recommended purchase for university libraries and those in industry and technology with specific interests in flow measurement." E-Streams

"The author of the Flow Measurement Handbook has written a text for all in industry who specify, apply, design, manufacture, develop, maintain, and use flow meters. The emphasis in this text is on the process, mechanical, and fluids engineering aspects of flow measurement. Electrical details are provided as necessary for a proper understanding of the measurement process. The descriptions of various flow measuring methods along with the extensive experience of the author forms a sound basis for this text." Appl Mech Rev Nov 2000

"an information-packed reference for engineering on flow-measuring techniques and instruments. Striking a balance between laboratory ideal and the realities of field experience, it provides a wealth of practical advice on the design, operation, and performance of a broad range of flowmeters." Current Engineering Practice Feb-Mar 2001

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