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Measurement in Fluid Mechanics is an ideal reference and textbook in experimental fluid mechanics for anyone wishing to understand the properties of fluid-containing systems, to design improved systems, to predict the operation of such fluid systems, and to monitor and control physical processes. This single-authored book provides a consistent description of most available measurement methods, with the necessary background material required to understand these methods. It contains classical and state-of-the-art methods for flow visualization and for measuring flow rate, pressure, velocity, temperature, concentration and wall shear stress. While practising engineers will find the book useful, it is ideal as a graduate textbook, with plenty of illustrations, an extensive bibliography and suggested homework problems. Measurement in Fluid Mechanics contains extensive background material in system response, measurement uncertainty, signal analysis, optics, fluid mechanical apparatus and laboratory practices, with the objective to shield the reader from having to consult additional primary references.