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Constant-current and Constant-temperature Operation ; 4.3. Doppler-shift Anemometers (Laser Anemometer, Sonic Anemometer); 4.4. Glow-discharge(21) or Corona-discharge(22) Anemometers; 4.5. The Pulsed-wire Anemometer; 4.6. Particle Visualization; 4.7. Use of Steady-flow Techniques for Fluctuation Measurement
4.8. Measurement of Surface Pressure Fluctuations4.9. Specialized Techniques of Turbulence Measurement; CHAPTER 5. The Hot-wire Anemometer; 5.1. Heat Transfer; 5.2. The Effect of Fluid Temperature; 5.3. The Effect of Flow Direction; 5.4. Contamination of Probes; 5.5. Probe Design and Manufacture; 5.6. Spatial Resolution; 5.7. Frequency Response; CHAPTER 6. Analysis of Fluctuating Signals; 6.1. Analogue Computing Elements; 6.2. Input and Output Impedance, and Frequency Response; 6.3. Noise and Hum; 6.4. Averaging Time; 6.5. Automatic Recording of Time-average Quantities
6.6. Digital Recording of Fluctuating Signals(45)CHAPTER 7. Temperature and Concentration Measurements; 7.1. Separation of Velocity and Temperature Fluctuations; 7.2. High-speed Flow; 7.3. Probes for Supersonic Flow; 7.4. Sensitivity of a Hot Wire to Velocity and Total-temperature Fluctuations; 7.5. Small Temperature Differences; 7.6. Measurements in the Presence of Concentration Differences; CHAPTER 8. Summary of Practical Details; 8.1. Choice of Anemometer (Section 4.2); 8.2. Choice of Probe (Sections 5.3, 5.5); 8.3. Calibration (Section 5.1.3); 8.4. Errors; 8.5. Arrangements of Apparatus 8.6. Distortion of the Flow by the Presence of the Probe

Sommario/riassunto

An Introduction to Turbulence and Its Measurement is an introductory text on turbulence and its measurement. It combines the physics of turbulence with measurement techniques and covers topics ranging from measurable quantities and their physical significance to the analysis of fluctuating signals, temperature and concentration measurements, and the hot-wire anemometer. Examples of turbulent flows are presented. This book is comprised of eight chapters and begins with an overview of the physics of turbulence, paying particular attention to Newton's second law of motion, the Newtonian viscous f