



Measurement in Fluid Mechanics

Stavros Tavoularis

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Measurement in Fluid Mechanics is an introductory, up-to-date, general reference in experimental fluid mechanics, describing both classical and state-of-the-art methods for flow visualization and for measuring flow rate, pressure, velocity, temperature, concentration, and wall shear stress. Particularly suitable as a textbook for graduate and advanced undergraduate courses. Measurement in Fluid Mechanics is also a valuable tool for practicing engineers and applied scientists. This book is written by a single author, in a consistent and straightforward style, with plenty of clear illustrations, an extensive bibliography, and over 100 suggested exercises. Measurement in Fluid Mechanics also features extensive background materials in system response, measurement uncertainty, signal analysis, optics, fluid mechanical apparatus, and laboratory practices, which shield the reader from having to consult with a large number of primary references. Whether for instructional or reference purposes, this book is a valuable tool for the study of fluid mechanics.

Stavros Tavoularis has received a Dipl. Eng. from the National Technical University of Athens, Greece, an M.Sc. from Virginia Polytechnic Institute and State University and a Ph.D. from The Johns Hopkins University. He has been a professor in the Department of Mechanical Engineering at the University of Ottawa since 1980, where he has served terms as the Department Chair and Director of the Ottawa-Carleton Institute for Mechanical and Aerospace Engineering. His research interests include turbulence structure, turbulent diffusion, vortical flows, aerodynamics, biofluid dynamics, nuclear reactor thermal hydraulics and the development of experimental methods. Professor Tavoularis is a Fellow of the Engineering Institute of Canada, a Fellow of the Canadian Society for Mechanical Engineering and a recipient of the George S. Glinski Award for Excellence in Research.

Contents:

Part I. General concepts: 1. Flow properties and basic principles; 2. Measuring systems; 3. Measurement uncertainty; 4. Signal conditioning, discretization, and analysis; 5. Background for optical experimentation; 6. Fluid mechanical apparatus; 7. Towards a sound experiment; Part II. Measurement techniques: 8. Measurement of flow pressure; 9. Measurement of flow rate; 10. Flow visualization techniques; 11. Measurement of local flow velocity; 12. Measurement of temperature; 13. Measurement of composition; 14. Measurement of wall shear stress; 15. Outlook.

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