FLOW MEASUREMENT AND INSTRUMENTATION

DESCRIPTION

*Flow Measurement and Instrumentation* is dedicated to disseminating the latest research results on all aspects of flow measurement, in both closed conduits and open channels. The design of flow measurement systems involves a wide variety of multidisciplinary activities including modelling the flow sensor, the fluid flow and the sensor/fluid interactions through the use of computation techniques; the development of advanced transducer systems and their associated signal processing and the laboratory and field assessment of the overall system under ideal and disturbed conditions.

**FMI** is the essential forum for critical information exchange, and contributions are particularly encouraged in the following areas of interest:

- **Modelling:** the application of mathematical and computational modelling to the interaction of fluid dynamics with flowmeters, including flowmeter behaviour, improved flowmeter design and installation problems. Application of CAD/CAE techniques to flowmeter modelling are eligible.

- **Design and development:** the detailed design of the flowmeter head and/or signal processing aspects of novel flowmeters. Emphasis is given to papers identifying new sensor configurations, multisensor flow measurement systems, non-intrusive flow metering techniques and the application of microelectronic techniques in smart or intelligent systems.

- **Calibration techniques:** including descriptions of new or existing calibration facilities and techniques, calibration data from different flowmeter types, and calibration intercomparison data from different laboratories.

- **Installation effect data:** dealing with the effects of non-ideal flow conditions on flowmeters. Papers combining a theoretical understanding of flowmeter behaviour with experimental work are particularly welcome.

- **Multiphase behaviour:** whether purpose-designed, or adapted from single-phase operation, coverage of systems for single-phase liquid and gas flows, multiphase flows having solid, liquid and gas phases, and slurries and pastes is equally welcome.

- **Associated measurements and secondary instrumentation:** for example, density, viscosity and secondary instrumentation effects.

All contributions are subject to peer review, and additional features include:
Review articles
Case studies
Letters to the editor
Patent surveys
Book reviews
Calendar of events and conference reports

*Flow Measurement and Instrumentation* is essential reading for instrumentation engineers in the oil, gas, power, chemical, food, water and waste treatment industries, manufacturers of flowmeters, and academics involved in research in this area.

**AUDIENCE**

Industrial engineers and researchers in the oil, gas, chemical, power, food, water and waste industries, universities and institutes.

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