



# FLOW MEASUREMENT AND INSTRUMENTATION

AUTHOR INFORMATION PACK

## TABLE OF CONTENTS

●	<b>Description</b>	<b>p.1</b>
●	<b>Audience</b>	<b>p.2</b>
●	<b>Impact Factor</b>	<b>p.2</b>
●	<b>Abstracting and Indexing</b>	<b>p.2</b>
●	<b>Editorial Board</b>	<b>p.2</b>
●	<b>Guide for Authors</b>	<b>p.4</b>



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## 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.

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**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

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

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*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.

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