



# FLOW MEASUREMENT AND INSTRUMENTATION

## AUTHOR INFORMATION PACK

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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.

*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

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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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### **Description**

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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.

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Reference to a journal publication:

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51–59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

Reference to a dataset:

[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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