



John C. Eidson

# Measurement, Control, and Communication Using IEEE 1588

Series: Advances in Industrial Control

- Standards are often written in language that is hard to read and with little relation to their application. This book will bring the reader vital information about a standard used in widespread distributed systems in plain language and with much applications-specific information and advice
- Written with the authority of one of the prime-movers of the IEEE standard under discussion

A common sense of time among the elements of a distributed measurement and control system allows the use of new techniques in solving problems with complex synchronization requirements or arising from the interaction of many sensors and actuators. Such a common sense of time may be accomplished using the standard IEEE 1588-2002 to synchronize real-time clocks integral to each component of the system. IEEE 1588, expands the performance capabilities of Ethernet networks so that they become relevant for measurement and control; this monograph embodies the first unified treatment of the associated technology, standards and applications. Readers will gain understanding of the technological context of IEEE 1588 and its role in a variety of application settings. To engineers this monograph provides detailed discussion of the complex features of the standard. Together with the essential material on best practice and implementation issues, these provide invaluable assistance in the design of new applications.

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