River Publishers

Industrial and Laboratory Measuring Systems

Sensors, Distributed, Modular and Wireless Systems

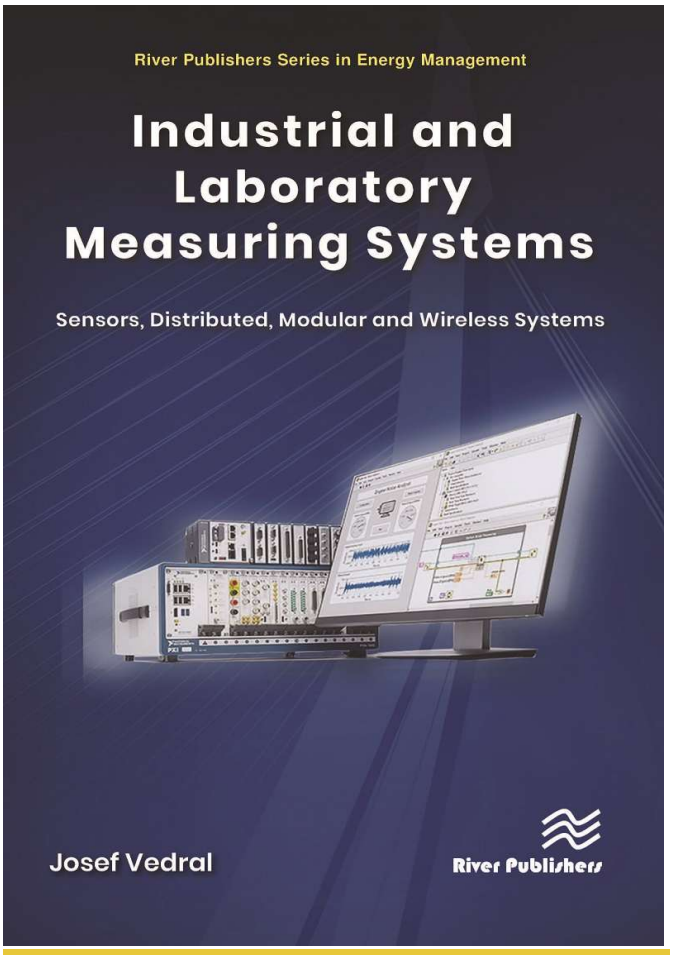
Author: Josef Vedral, Czech Technical University in Prague, Czech Republic

This book describes the types and properties of computer controlled industrial and laboratory measuring systems for data acquisition and processing signals of typical physical sensors. An overview of the properties of these sensors used in laboratory and industrial environments is provided. The chapters describe the properties of computers used in measurement systems, including plug-in cards and the IEEE-488 protocol. The following chapters describe the types and properties of distributed and modular measuring systems and systems using data networks, including wireless measuring systems. The final chapters describe methods of digitization, reconstruction and signal processing in measurement systems in time and frequency domains.

The book is intended for users and designers of digital measuring systems, working in laboratory and industry, scientific and research workplaces and students of university relevant technical focus and was created on the basis of the author's many years of activity in the field of development and use of measuring systems in laboratory and industrial environments.

TABLE OF CONTENTS

1. Specifics of Measuring Systems
2. Typical Sensors of Physical Quantities
3. Personal Computers in Measuring Systems
4. Measurement Systems Based on IEEE-488
5. Plug-in Card Measuring Systems
6. Distributed Measurement Systems
7. Modular Measuring Systems
8. Measurement Systems Based on Data Networks
9. Wireless Measuring Systems
10. Digitizing and Reconstruction of Continuous Signals
11. Signal Processing in Measurement Systems



River Publishers Series in Energy Management

ISBN: 9788770041508
e-ISBN: 9788770041201
Available From: October 2024
Price: $ 150.00

KEYWORDS:
Measuring systems, sensors of physical quantities, personal computers, plug-in card systems, modular systems, distributes systems, wireless system, digitizing and reconstruction signals, signal processing

www.riverpublishers.com
marketing@riverpublishers.com