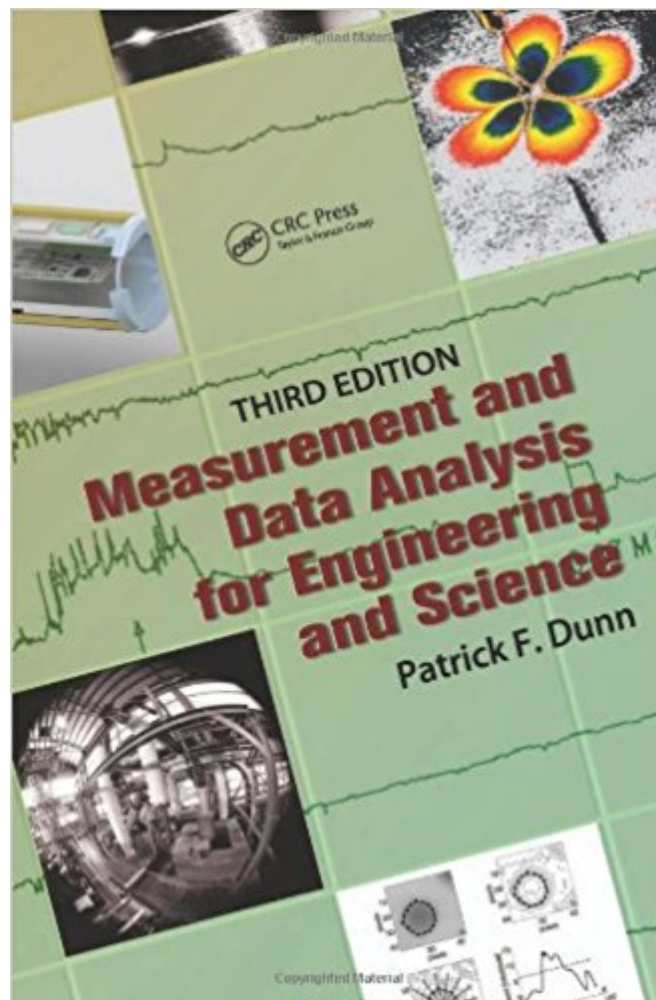




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# Measurement And Data Analysis For Engineering And Science, Third Edition (Volume 2)



## Synopsis

The third edition of *Measurement and Data Analysis for Engineering and Science* provides an up-to-date approach to presenting the methods of experimentation in science and engineering. Widely adopted by colleges and universities within the U.S. and abroad, this edition has been developed as a modular work to make it more adaptable to different approaches from various schools. This text details current methods and highlights the six fundamental tools required for implementation: planning an experiment, identifying measurement system components, assessing measurement system component performance, setting signal sampling conditions, analyzing experimental results, and reporting experimental results.

**What's New in the Third Edition:** This latest edition includes a new chapter order that presents a logical sequence of topics in experimentation, from the planning of an experiment to the reporting of the experimental results. It adds a new chapter on sensors and transducers that describes approximately 50 different sensors commonly used in engineering, presents uncertainty analysis in two separate chapters, and provides a problem topic summary in each chapter. New topics include smart measurement systems, focusing on the Arduino® microcontroller and its use in the wireless transmission of data, and MATLAB® and Simulink® programming for microcontrollers. Further topic additions are on the rejection of data outliers, light radiation, calibrations of sensors, comparison of first-order sensor responses, the voltage divider, determining an appropriate sample period, and planning a successful experiment. *Measurement and Data Analysis for Engineering and Science* also contains more than 100 solved example problems, over 400 homework problems, and provides over 75 MATLAB® Sidebars with accompanying MATLAB M-files, Arduino codes, and data files available for download.

## Book Information

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## Customer Reviews

Patrick F. Dunn, Ph.D., P.E., is a professor of aerospace and mechanical engineering at the University of Notre Dame. He earned his B.S., M.S., and Ph.D. degrees in engineering from Purdue University (1970, 1971, and 1974). Professor Dunn is the author of over 160 scientific journal and refereed symposia publications, and various textbooks including Measurement and Data Analysis for Engineering and Science Second Edition by Taylor & Francis / CRC Press, 2010; Measurement and Data Analysis for Engineering and Science, Third Edition by Taylor & Francis / CRC Press; and Fundamentals of Sensors for Engineering and Science First Edition

Poor book. Instrumentation is a complex topic and this book doesn't provide much help or explanation.

This textbook is the most unhelpful piece of garbage I've ever owned

Worst Engineering book ever.

This book is awful, both as a reference and as a textbook. Its information is unclear and at times just plain wrong. Within each chapter, there seems to be little rhyme or reason for the organization of the material. And, after chapter 7, the author really stops motivating the material through the context of measurement. As an example, in the author's cursory treatment of Fourier analysis, he presents convolution (incorrectly in Table 9.1) and makes no attempt to motivate it at all. For instance, deconvolving a system's impulse response from a measured signal is an interesting application, and it's fitting in this context. Also, it really motivates students to see that they're not just doing math for math's sake. Totally lackluster, uninspiring text.

Poorly written and organized. If you're here for ND's course, just buy the second edition. It's not better, but it's cheaper.

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