



Measurement and Data Analysis for Engineering and Science (Engineering Series)

Patrick Dunn, Patrick Dunn

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*****Text is available as of 5/21/2004!*****

Dunn's *Measurement and Data Analysis for Engineering & Science* places emphasis on the process of experimentation, rather than the products of experimentation. Dunn's objective is to expose undergraduates and experimentalists to the essential tools of experimentation, to the scientific detail behind these tools, and to the role of experimentation in the scientific process. Guided by worked examples, MATLAB sidebars, and laboratory exercises, the reader builds a strong working knowledge while moving progressively through the text.

The first three chapters of the text cover the basics--experimental methods, units & significant figures, technical communications and basic electronics. Hardware issues are then presented, with a focus on measurement systems, and calibration & response. The final chapters deal with data analysis, with an overview of basic probability & statistics, uncertainty analysis, signal characteristics, and digital signal analysis. Following the text chapters, a full laboratory manual, with an introduction and twelve lab experiments, is included. This gives users a chance to put their basic skills to work in actual engineering experiments, which are taken from a variety of engineering subject areas.

Throughout the book computer techniques are discussed, and specific MATLAB applications are included, for problem modeling, exploration and solution. MATLAB "sidebars" are used to present MATLAB, and associated M-files are provided on the Web site.

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