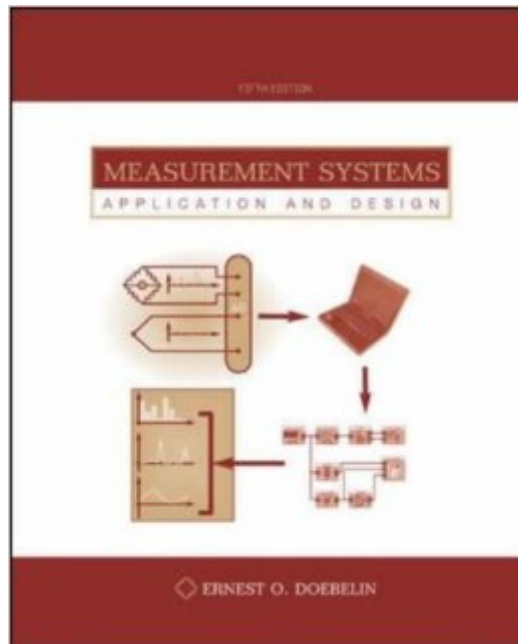


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# Measurement Systems: Application And Design



## Synopsis

Doebelin's "Measurement Systems Application and Design, 5/e" provides a comprehensive and up-to-date overview of measurement, instrumentation and experimentation; it is geared mainly for Mechanical and Aerospace Engineering students, though other majors can also utilize it. The 5/e features increased coverage of sensors and computer tools in measurement and experimentation. Measurement techniques related to micro- and nano-technologies are now discussed. The newest computer methods are covered, and Doebelin has added a significant commercial software connection for users of the book. Specific coverage of MATLAB, SIMULINK, and the lab simulation package DASYLAB is provided in the book, and free DASYLAB software is included on a CD ROM with each copy.

## Book Information

Paperback: 768 pages

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Product Dimensions: 7.5 x 1.5 x 9.4 inches

Shipping Weight: 3.4 pounds

Average Customer Review: 2.5 out of 5 stars Â See all reviews Â (4 customer reviews)

Best Sellers Rank: #805,385 in Books (See Top 100 in Books) #112 in Â Books > Engineering & Transportation > Engineering > Reference > Measurements #141 in Â Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic #410 in Â Books > Computers & Technology > Hardware & DIY > Design & Architecture

## Customer Reviews

I recently used this as a text to teach measurement systems to Mechanical Engineering seniors. I was attracted to Doebelin's book because the preface states "...Inclusion of significant material on important specific areas such as sound measurement, heat-flux sensors, gyroscopic instruments, hotwire anemometers, digital methods, random signals, mass flowmeters, amplifiers, and the use of feedback principles." After using this text for one semester, I was not satisfied. I was particularly disappointed by the chapter where the fundamentals of thermometers are covered. Some equations in this chapter were seriously incorrect. While errors always can be found in texts, these equations were so obviously wrong at first glance that I wondered how a book of "faultless typing" (as listed in

preface) has such glaring errors. As I progressed through the text I found a number of other errors including incorrect equations in some places. I also found that some material that I consider important was not emphasized as part of the book's text. While the book does present a lot of material, I found that I was not comfortable with the text at the end of the course. I have since decided to drop this book from consideration as our text.

Old professors want to write newer edition of books to make more money. "Measurement Systems 5th Edition" is a good example. It has no improvement from the 4th edition. Comparison of the 4th and 5th edition in library is enough to convince me that it is not worth spending extra \$\$\$ to buy this new edition.

The book was required for my class. It's decent- it goes through and explains different parts of setting up a measurement system for an experiment. It may be because it's not my area of expertise, but it can be a little dry reading sometimes. I don't feel like it defines terms very well from time to time, but I get the gist of what is being said. So far I feel like it's an okay resource.

This is the second book of Doebelin's I've owned. He presents material in a easy to understand way and is exceptionally thorough. I'd recommend any of his books.

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