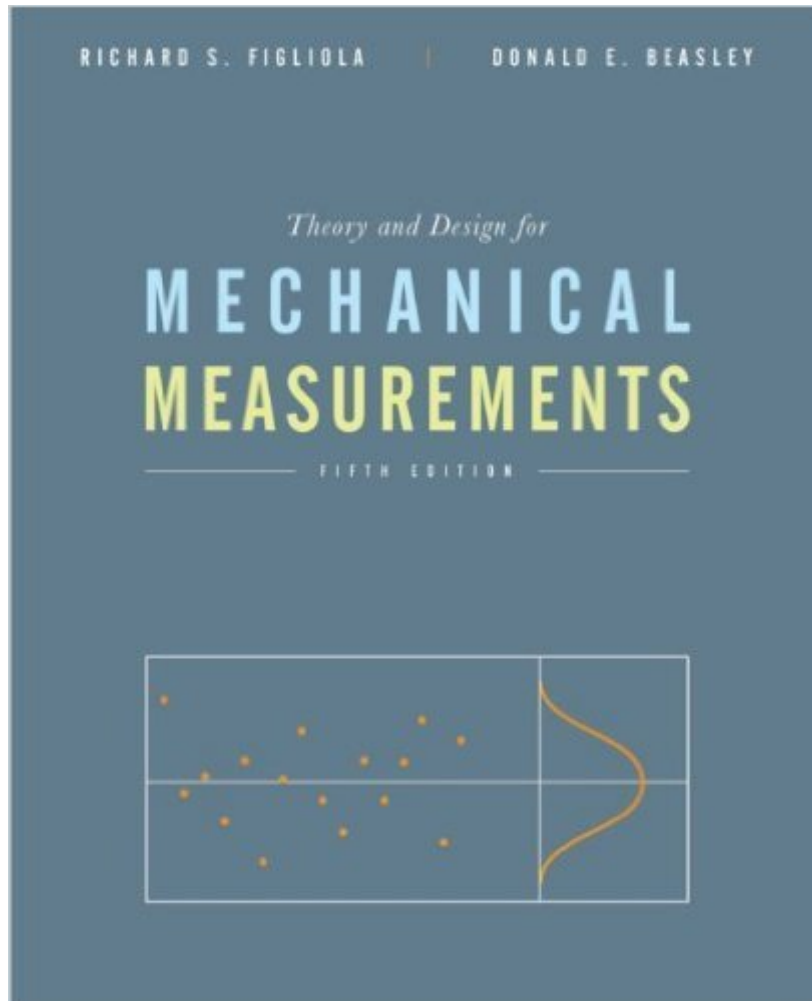


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Theory And Design For Mechanical Measurements, 5th Edition



Synopsis

Figliola and Beasleys Fifth Edition provides revised material for engineering practice with important updates on coverage of probability and statistics and uncertainty analysis, including added material on Monte Carlo simulation, digital image processing, and with revised coverage of signal acquisition, conditioning, and processing. Maintaining and building upon its signature comprehensive coverage using focused examples to aid understanding, this text provides a timely and in-depth reference to the theory and the applications of engineering measurements, measurement system performance, and instrumentation.

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Customer Reviews

Overall if a book had covered the chapters in terms of material like this one I would be a happy customer, that being said though this book exposes readers to the fundamentals, it lacks the content for one to develop it, I will be finishing my Mechanical Measurements and Instrumentation class, and to be quite honest I've only used this to stay on track with what needs to be learned, I

have had to read elsewhere on the internet just to be up to speed, the solutions in the manual are as someone else said, the "riddled with errors." I have learned some things from this book, but mostly I learned about mechanical measurements by using Labview and performing actual experiments, what is truly tragic is how statistics and signal analysis is the emphasis of this class, but this is where the book lacks in bringing context and truly showing math, I'm not asking for a bible in how to memorize a process, but this book hardly if ever works a problem 100 percent through, linear interpolation was a biggie. I can also say this without a doubt a lazy book when it comes to explaining the significance of equations, nomenclature is included and is standard, but this book is really just a book filled with equations and data tables. For example... Static Sensitivity, its basically a calibration standard where you take the slope or the gradient to find if there are any systematic errors in relation to the instrument you are using.... well it neglects to mention how you can actually calculate it and adjust for different conditions such as when there is no data table provided with time domains or an equation that is linear or when you are trying to analyze a 2nd order differential equation and an input periodic function has been incorporated and you need to adjust for the resonant frequencies.

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