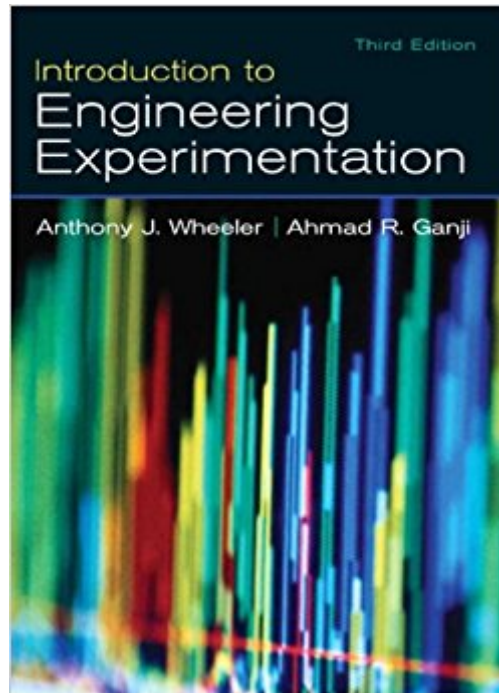




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Introduction To Engineering Experimentation (3rd Edition)



Synopsis

KEY BENEFIT: An up-to-date, practical introduction to engineering experimentation. Introduction to Engineering Experimentation, 3E introduces many topics that engineers need to master in order to plan, design, and document a successful experiment or measurement system. The text offers a practical approach with current examples and thorough discussions of key topics, including those often ignored or merely touched upon by other texts, such as modern computerized data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis. The book includes theoretical coverage and selected applications of statistics and probability, instrument dynamic response, uncertainty analysis and Fourier analysis; detailed descriptions of computerized data acquisition systems and system components, as well as a wide range of common sensors and measurement systems such as strain gages and thermocouples. Worked examples are provided for theoretical topics and sources of uncertainty are presented for measurement systems. For engineering professionals looking for an up-to-date, practical introduction to the field of engineering experimentation.

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data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis. The book includes theoretical coverage and selected applications of statistics and probability, instrument dynamic response, uncertainty analysis and Fourier analysis; detailed descriptions of computerized data acquisition systems and system components, as well as a wide range of common sensors and measurement systems such as strain gages and thermocouples. Worked examples are provided for theoretical topics and sources of uncertainty are presented for measurement systems. For engineering professionals looking for an up-to-date, practical introduction to the field of engineering experimentation.

Anthony J. Wheeler received a Ph.D. in Mechanical Engineering from Stanford University in 1971. Dr. Wheeler is a licensed Professional Engineer in the State of California. He is currently Emeritus Professor of Engineering at San Francisco State University where he taught courses in Fluid Mechanics and Thermodynamics, and lectures and laboratories in Experimental Methods. His development activities in laboratories in experimentation were the precursors to the present textbook. Professor Ahmad R. Ganji received his Ph.D. from the University of California, Berkeley in 1979. He is a professional engineer in the State of California. He has served as a faculty member at San Francisco State University since 1987, teaching courses in the areas of thermal-fluids, experimentation, and air pollution, and publishing over 40 works. Dr. Ganji has been the director of Industrial Assessment Centerâ “a US DOE sponsored project since 1992. In this capacity he has managed hundreds of energy assessments of manufacturing facilities. As a consultant in energy efficiency projects, he has directed and managed numerous measurement and verification (M&V) projects that involve the formulation of detailed measurement protocols based on national and international standards.

This is a very good textbook. Difficult to get into at first, but once you get tuned into the writing and explanations it is great. Excellent descriptive applications of the concepts and chapter problems that really make you think through the work. I would actually recommend this book over a statistics text because the chapter explanations are so much better. A true bonus that the experimental material is covered in the same text. I wish I would have held on to this book, but at the time the sale price was too attractive to pass up. If I find another copy of this some where I would re-buy it in a second.

This book was useful for two of my college courses, and it is a great reference book to have for anyone that uses any ME/EE lab equipment. There's a lot of material crammed into this relatively

small book. Despite that this textbook is painful to read at times. I can't point out anything specific, but I hated using this book despite its useful-ness.

This textbook was required for a course. I must say I personally thought it could have been written better to support the questions at the end of the chapters.

The book has been easy to read, well organized, fairly succinct, and has a good load of worked example problems laced into it. It's been helpful.

This is one of the best books about engineering that I have read. It shows the principles of experimentation. It also describes the equipment and its variables that an experience engineer can built its own.

The only way to understand the material was through the example problems. Many problems at the end of the chapters were unrelated and not explained in the text. Explanations were not thorough.

Has good introductory topics suitable for a junior or senior level instrumentation or design course. Easy to read and follow.

Book was brand new and came is exactly when it was expected. Book was so new it had never been opened before.

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