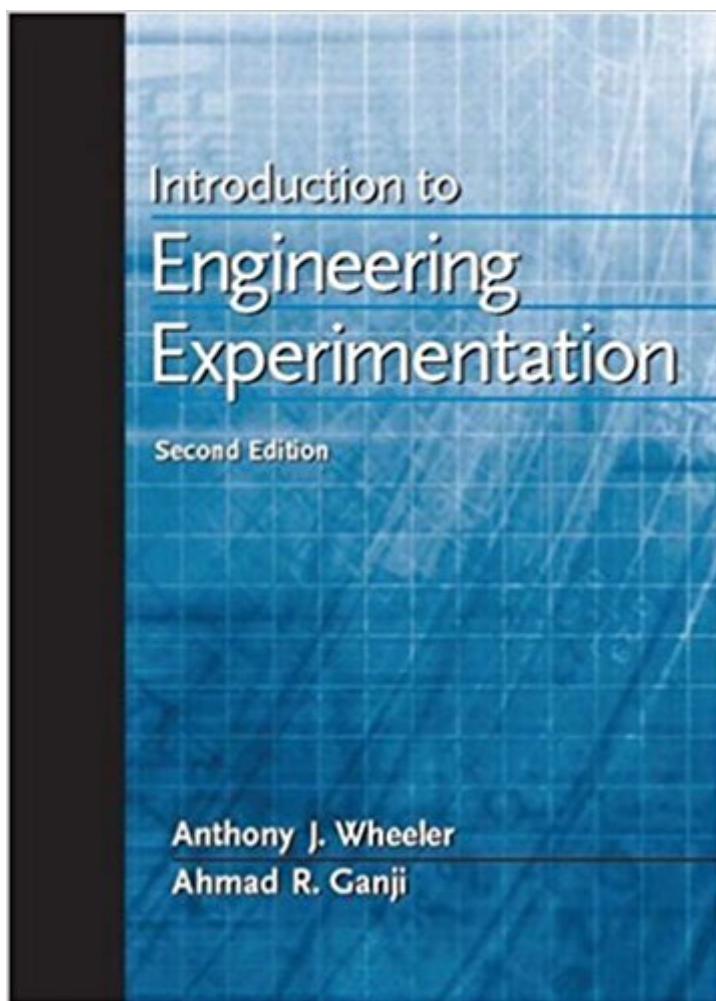


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# Introduction To Engineering Experimentation (2nd Edition)



## **Synopsis**

Appropriate for undergraduate-level courses in Introduction to Engineering Experimentation found in departments of Mechanical, Aeronautical, Civil, and Electrical Engineering. Wheeler and Ganji introduce many topics that engineers need to master in order to plan, design and document a successful experiment or measurement system. The text offers thorough discussions of topics often ignored or merely touched upon by other texts, including modern computerized data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis.

## **Book Information**

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## **Customer Reviews**

Wheeler and Ganji introduce many topics that engineers need to master in order to plan, design and document a successful experiment or measurement system. The text offers thorough discussions of topics often ignored or merely touched upon by other texts, including modern computerized data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis. --This text refers to an alternate Hardcover edition.

Based on the authors' industrial and academic experience, this book has been developed for an undergraduate course in engineering experimentation at the junior or senior level. The book can also be a useful reference for practicing engineers. The material covers the most common elements necessary to design, execute, analyze, and document an engineering experiment or to specify

instrumentation for a production process. Key Features of the Book Introduction of the common nomenclature for measuring devices and presentation of the standard method to calibrate instruments Characteristics of signal conditioners, including amplifiers and filters Description of computerized data acquisition systems Detailed discussion of the sampling rate theorem and signal analysis using Fourier series and Fourier transforms Detailed coverage of the most common statistical techniques and probability distributions Detailed coverage of the most recent standard for uncertainty analysis Descriptions of the most common engineering measuring devices Detailed coverage of the dynamic characteristics of measuring systems with practical applications Common techniques for planning and documenting experiments Extensive end-of-chapter problems based on realistic industrial practice In addition to descriptions of common instruments, the book also includes common statistical techniques, data acquisition systems, and aspects of discrete sampling.

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 build 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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