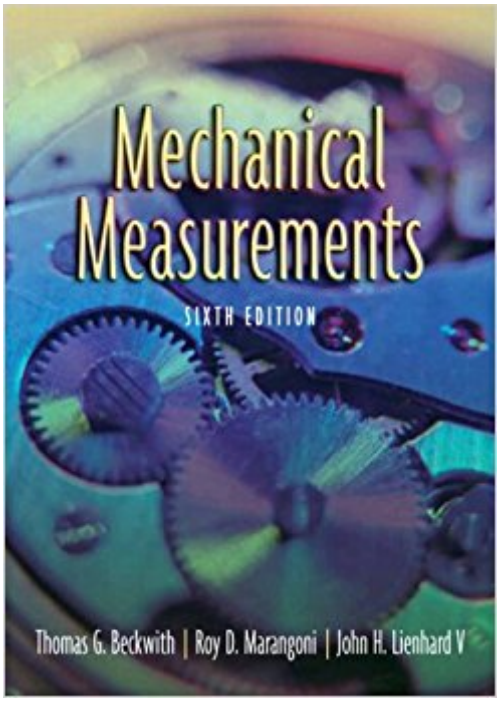
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Mechanical Measurements (6th Edition)



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Synopsis

In the field of mechanical measurements, Mechanical Measurements continues to set the standard. With an emphasis on precision and clarity, the authors have consistently crafted a text that has helped thousands of students grasp the fundamentals of the field. Mechanical Measurements 6th edition Ã Â gives students a methodical, well thought-out presentation that covers fundamental issues common to all areas of measurement in Part One, followed by individual chapters on applied areas of measurement in Part Two. This modular format fits several different course formats and accommodates a wide variety of skill levels.

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Customer Reviews

After more than 45 years, the basic purpose of this book can still be expressed by the following three paragraphs extracted from the Preface of the first edition of Mechanical Measurements, published in 1961. Experimental development has become a very important aspect of mechanical design procedure. In years past the necessity for Ãƒâ "ironing out the bugsÃƒâ " was looked upon as an unfortunate turn of events, casting serious doubts on the abilities of a design staff. With the ever-increasing complexity and speed of machinery, a changed design philosophy has been forced on both the engineering profession and industrial management alike. An experimental development period is now looked upon, not as a problem to avoid, but as an integral phase of the whole design procedure. Evidence supporting this contention is provided by the continuing growth of research and development companies, subsidiaries, teams, and armed services R&D programs. At the same

time, it should not be construed that the experimental development (design) approach reduces the responsibilities attending the preliminary planning phases of a new device or process. In fact, knowledge gained through experimental programs continually strengthens and supports the theoretical phases of design. Measurement and the correct interpretation thereof are necessary parts of any engineering research and development program. Naturally, the measurements must supply reliable information and their meanings must be correctly comprehended and interpreted. It is the primary purpose of this book to supply a basis for such measurements. When Tom Beckwith introduced the first edition of this pioneer text in 1961, all sensors and recording equipment were of analog nature. From the first edition to the present sixth edition, we have seen a marked transition from analog measurement to digital measurement. During the time between the first edition and the fourth edition, Tom came to recognize and appreciate the change from analog techniques to digital techniques and this was reflected in the technical material in those editions. However, from the fourth edition to the present edition enormous changes in digital instrumentation have occurred. In his wildest dreams, we doubt that Tom envisioned how the computer would change the area of mechanical measurements. The personal computer and software such as LabVIEW have revolutionized the measurement process. Instead of cabinet after cabinet of specialized signal conditioning equipment, students may now use a personal computer, with a dedicated interface and appropriate software, to drive array of sensors suitable for most measurements. Although Tom is no longer with us, we are sure that he looks down and smiles when he sees how that which he originally started has progressed. The authors do not suggest that the sequence of materials as presented need be strictly adhered to. Wide flexibility of course contents should be possible, with text assignments tailored to fit a variety of basic requirements or intents. For example, the authors have found that, if desired, Chapters 1 and 2 can simply be made a reading assignment. Greater or lesser emphasis may be placed on certain chapters as the instructor wishes. Should a course consist of a lecture/recitation section plus a laboratory, available laboratory equipment may also dictate areas to be emphasized. Quite generally, as a text, the book can easily accommodate a two-semester sequence. ACKNOWLEDGMENTS Roy Marangoni thanks his wife, Lavonne, for her patience throughout several editions of this textbook. Roy also expresses his gratitude to his son, Gary, for sharing his expertise in the field of computer technology. John Lienhard would like to thank Lori Hyke and Suzanne Bunker for their assistance with various aspects of the manuscript. John also thanks his family, Theresa, Jasper, and Hannah, for their loving support over the years. Roy D. Marangoni John H. Lienhard V

This introductory text is intended for undergraduate students with no experience in measurement and instrumentation. The book is appropriate for lab courses found in most mechanical engineering departments and often in departments of engineering technology. Introduces mechanical qualities such as force, position, temperature, acceleration, and fluid flow. Each self-contained chapter can be used in any order thus creating many options for the instructor. Mechanical Measurements may be used as a primary text for a measurement course or as a reference in the laboratory. --This text refers to an out of print or unavailable edition of this title.

This book was required for senior level class at university. This book was used in tandum with a Labview instruction manual to learn how to perform experiments for mechnical engineering in the lab. It provided the theory needed to understand and complete the experiments. I give only 3 stars because it reads like a text book, and can be very dense at times. Otherwise I would recommend this to students and professionals alike.

It’s a bad.This is reprinted in 1995, i think 1993.

I loved this book. One of my favorite classes so far in my mechanical engineering career. Maybe a little more examples would’ve been helpful, but if you have a good professor then more examples are not needed.I actually enjoyed reading this book, and I wish I would’ve bought a hardcover instead of paperback

A lot of useful information

Dry as a bone. Good resource I guess.

good book i purchased for school.

as expected

Great.

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