



Electronic Measurement and Instrumentation

By Klaas B. Klaassen

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In this text on electronic measurement and instrumentation, Dr. Klaassen concentrates on theoretical principles relevant to all measurements for electrical, thermal and mechanical systems. Dr. Klaassen follows a system science approach rather than employing the more common method of instrument description. The author deals with all the fundamental aspects of measurement, including theory of measurement, systems of units, standards, measurement methods, data acquisition, sampling, multiplexing and aliasing. He also covers more practical aspects of measurement, including transducers, interference, noise, AD and DA conversion and instrument data busses. This book is targeted at engineers and scientists in both industry and academia. It will be of particular interest to those active in the fields of electrical, mechanical and control engineering and will be widely used as a text for undergraduate courses.

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Electronic Measurement and Instrumentation By Klaas B. Klaassen Bibliography

- Rank: #11028378 in Books
- Brand: Brand: Cambridge University Press
- Published on: 1996-09-13
- Original language: Dutch
- Number of items: 1
- Dimensions: 8.98" h x .94" w x 5.98" l,
- Binding: Hardcover
- 343 pages

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Review

'... it contains a useful overview of the considerations behind many instruments we use daily and probably take for granted.' David Jefferies, The Times Higher Education Supplement

Language Notes

Text: English (translation)

Original Language: Dutch

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