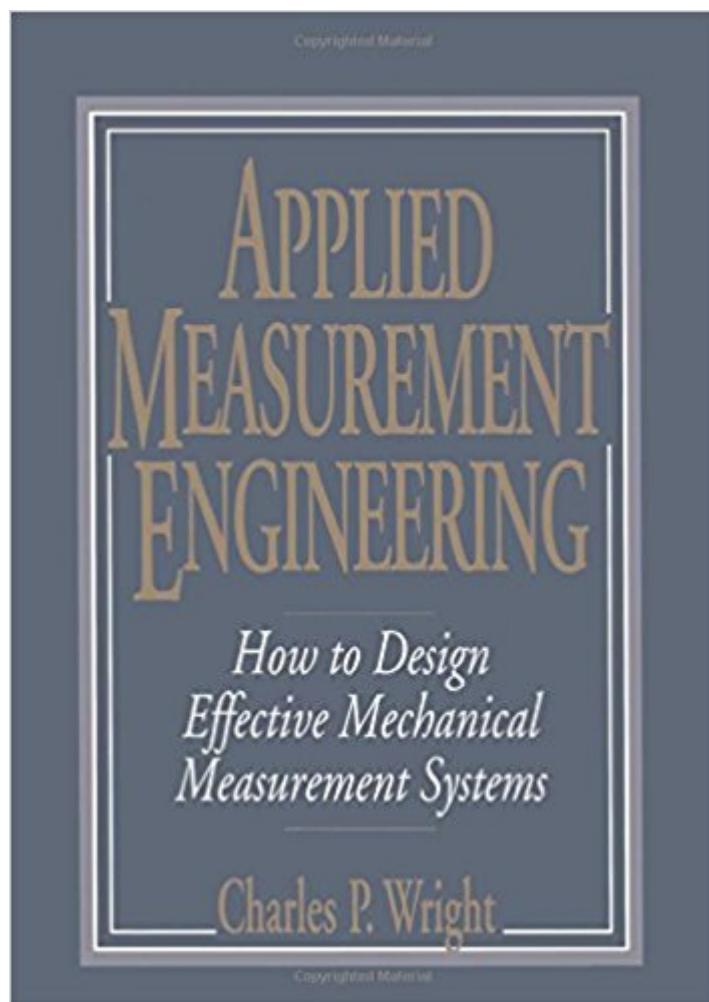


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# Applied Measurement Engineering: How To Design Effective Mechanical Measurement Systems



## **Synopsis**

This book offers a relatively non- mathematical, real-world look at the design and operation of the complex measurement systems used in the experimental mechanics testing business where the over-arching requirement is test data that is valid beyond the question of a doubt, delivered on time, and economically affordable. It tells engineers what they need to know to survive on a daily basis in such test laboratories in today's high pressure, competitive and leveraged, cost driven, process-oriented test world. Explains the 10 crucial technical issues that must be understood and under control at all times if effective and perceptive measurements are to be made on a daily basis in the test laboratory. Also discusses a working philosophy, responsibility and engineering ethics, and management of the measurements activity. Features, here for the first time, The Measurement Contract, a definition of who owes what to whom when working in a really effective test laboratory. For any and all engineers and engineering managers responsible for the timely delivery of demonstrably valid test data in testing laboratories or whose organizations product quality depends on that testing.

## **Book Information**

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## **Customer Reviews**

Filling the void left by conventional educational avenues, this book concentrates on the design and operation of measurement systems that are effective on the test-laboratory floor to support your customer's real-time, test time decision-making process.

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complex measurement systems used in the experimental mechanics testing business where the over-arching requirement is test data that is valid beyond the question of a doubt, delivered on time, and economically affordable. It tells engineers what they need to know to survive on a daily basis in such test laboratories in today's high pressure, competitive and leveraged, cost driven, process-oriented test world. Explains the 10 crucial technical issues that must be understood and under control at all times if effective and perceptive measurements are to be made on a daily basis in the test laboratory. Also discusses a working philosophy, responsibility and engineering ethics, and management of the measurements activity. Features, here for the first time, The Measurements Contract -- a definition of who owes what to whom when working in a really effective test laboratory.

This book uses a minimum of mathematics, but covers the practical aspects of making valid measurements on mechanical structures. Written by a seasoned expert in the field of measurements engineering, he offers practical advice that should be heeded by anyone attempting to make valid mechanical measurements. I used to teach a short course on data acquisition systems, and often recommended this book to my students. It could use some updating, particularly in addressing software, but still is a valid reference.

Practical look at all aspects of measurement systems, with good details on dynamic properties. It was recommended to me when I was looking for guidance on filter selection. Points out the many pitfalls faced when developing measurement systems. This book is like having a wise engineer at your side, wishing they were there when you started your career. I haven't finished reading it yet, so I do not know if it is deserving of 5 stars.

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