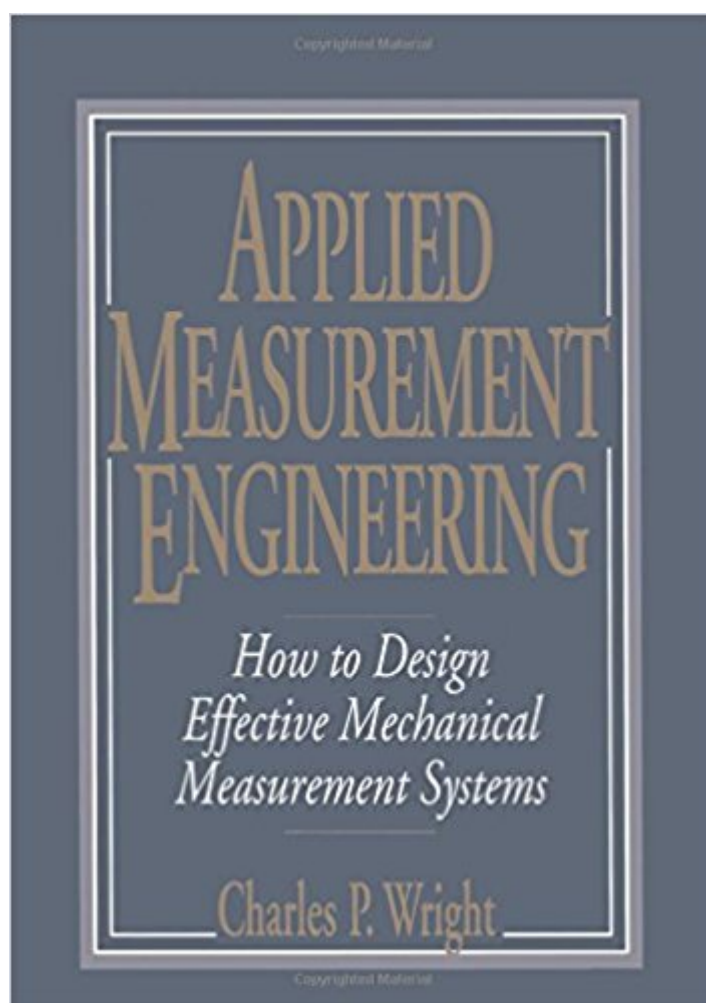


The book was found

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

Paperback: 432 pages

Publisher: Prentice Hall; 1 edition (September 30, 1994)

Language: English

ISBN-10: 0132534770

ISBN-13: 978-0132534772

Product Dimensions: 6.8 x 1.1 x 9 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #842,879 in Books (See Top 100 in Books) #119 in Books > Engineering & Transportation > Engineering > Design #1426 in Books > Textbooks > Engineering > Mechanical Engineering #3624 in Books > Engineering & Transportation > Engineering > Mechanical

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.

This books 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 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.

[Download to continue reading...](#)

Applied Measurement Engineering: How to Design Effective Mechanical Measurement Systems
Shigley's Mechanical Engineering Design (McGraw-Hill Series in Mechanical Engineering)
Introduction to Mechatronics and Measurement Systems (Mechanical Engineering) Code Check
Plumbing & Mechanical 4th Edition: An Illustrated Guide to the Plumbing and Mechanical Codes
(Code Check Plumbing & Mechanical: An Illustrated Guide) The Mechanical Design Process
(McGraw-Hill Series in Mechanical Engineering) Geometric Dimensioning and Tolerancing for
Mechanical Design 2/E (Mechanical Engineering) The Mechanical Design Process (Mechanical
Engineering) The Engineering Design of Systems: Models and Methods (Wiley Series in Systems
Engineering and Management) Adhesion Measurement Methods: Theory and Practice (Mechanical
Engineering (Marcel Dekker)) Boat Mechanical Systems Handbook: How to Design, Install, and

Recognize Proper Systems in Boats Airport Systems, Second Edition: Planning, Design and Management (Mechanical Engineering) Practice Problems for the Mechanical Engineering PE Exam, 13th Ed (Comprehensive Practice for the Mechanical Pe Exam) Systems Engineering and Analysis (5th Edition) (Prentice Hall International Series in Industrial & Systems Engineering) Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) Tests & Measurement for People Who (Think They) Hate Tests & Measurement ISO/IEC Guide 98-3:2008, Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995) Mechanical and Electrical Systems in Architecture, Engineering and Construction (5th Edition) Nanotechnology: Understanding Small Systems, Third Edition (Mechanical and Aerospace Engineering Series) Computational Transport Phenomena of Fluid-Particle Systems (Mechanical Engineering Series) Principles of Sustainable Energy Systems, Second Edition (Mechanical and Aerospace Engineering Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)