



## Measurement System Error Analysis: Analyzing and Reducing Measurement Errors in Test Systems (Paperback)

By Mike Peralta

Createspace Independent Publishing Platform, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. The goal of this book is to carefully define and derive the statistical relationships relevant to the errors that do and can occur in measurement systems. The emphasis is on test systems employed in manufacturing. However, the statistical techniques presented are general and can be applied to any field of science, engineering, or any field which employs the mathematics of statistics to gather and analyze information. As will be explained throughout this book, knowing the statistics of measurement error for test equipment will allow us to know and improve test accuracy and precision, which in turn, will allow us to greatly improve: Product Quality, Test Productivity, and Product Yields. The center of this work is the Test Capability Study this is a spreadsheet based analysis that can quickly be set up and give an estimate of the overall uncertainty of a measurement based on a sampling of test systems or test configurations. The Test Capability Study is a streamlined and more efficient form of the Gage R R Study. Also covered is the Propagation of Errors (POE) analysis to...



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