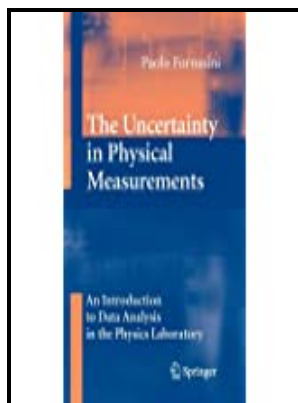


# Data Reduction and Error Analysis for the Physical Sciences

**McGraw - 9780071199261: Data Reduction and Error Analysis for the Physical Sciences**



Description: -

-Data Reduction and Error Analysis for the Physical Sciences

-Data Reduction and Error Analysis for the Physical Sciences

Notes: Tertiary education; Professional and scholarly.

This edition was published in 2002



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## Data Reduction And Error Analysis For The Physical Sciences PDF Book

In most experimental work, the confidence in the uncertainty estimate is not much better than about  $\pm 50\%$  because of all the various sources of error, none of which can be known exactly.

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The limiting factor with the meter stick is parallax, while the second case is limited by ambiguity in the definition of the tennis ball's diameter it's fuzzy! You can also think of this procedure as examining the best and worst case scenarios.

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Precision is often reported quantitatively by using relative or fractional uncertainty: Note: The minus sign indicates that the measured value is less than the expected value. The codes themselves have been updated from old FORTRAN to a structured language, but I would have preferred C or FORTRAN 90 over the chosen PASCAL. The amount of drift is generally not a concern, but occasionally this source of error can be significant.

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Instrument drift systematic — Most electronic instruments have readings that drift over time. Calibrating the balances should eliminate the discrepancy between the readings and provide a more accurate mass measurement. This book is designed as a laboratory companion, student textbook or reference book for professional scientists.

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These errors are difficult to detect and cannot be analyzed statistically.

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As a rule, personal errors are excluded from the error analysis discussion because it is generally assumed that the experimental result was obtained by following correct procedures.

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