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~~Experimental Errors and Error Analysis~~

Introduction Experimental errors are inevitable. In absolutely every scientific measurement there is a degree of uncertainty we usually cannot eliminate. Understanding errors and their implications is the only key to correctly estimate and minimize them. In your first year of university physics you must have read a document on Error Analysis

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ror Analysis THE STUDY OF UNCERTAINTIES IN PHYSICAL MEASUREMENTS SECOND EDITION John R. Taylor PROFESSOR OF PHYSICS UNIVERSITY OF COLORADO University Science Books Sausalito, California 3 / 349 Taylor J. R. Introduction To Error Analysis 2ed Error Analysis—University of Rochester Internet Archive

However, the following points are important: 1. The person who did the measurement probably had some "gut feeling" for the precision and "hung" an error on the... 2. In complicated experiments, error analysis can identify

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more careful error analysis based on propagation of error rules is appropriate. Least squares curve fitting provides very good estimates for uncertainties. For error analysis with the slope or intercept from least squares curve fitting, a little more care is justified than is provided by significant figure rules.

Error Analysis is an important tool for all quantitative sciences. Measured values are always subject to uncertainty, whether due to human or machine imperfections. A measured number by itself, without a value for the uncertainty, carries very little meaning as it cannot rule out any other value.

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Error analysis is primarily a statistical tool, and those who have had statistics will find this very familiar. The first part of the book is very simple - Tay-

lor assumes no background, so gives an introduction to the simple reading of charts, graphs, scales and other such things, with plenty of examples.

Error analysis (EA) was an alternative to contrastive analysis, an approach influenced by behaviorism through which applied linguists sought to use the formal distinctions between the learners' first and second languages to predict errors.

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~~Error Analysis—Colby College~~

•In engineering the word "error", when used to describe an aspect of measurement does not necessarily carry the connotation of mistake or blunder (although it can!)

•Error in a measurement means the inevitable uncertainty that attends all measurements •We cannot avoid errors in this sense

~~ERROR ANALYSIS (UNCERTAINTY ANALYSIS)~~

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