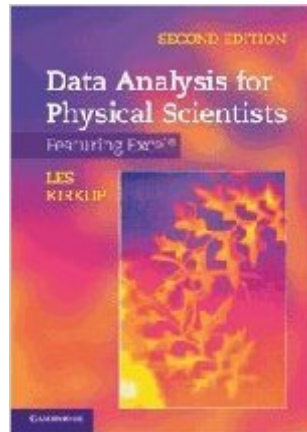




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Data Analysis For Physical Scientists: Featuring Excel®



Synopsis

The ability to summarise data, compare models and apply computer-based analysis tools are vital skills necessary for studying and working in the physical sciences. This textbook supports undergraduate students as they develop and enhance these skills. Introducing data analysis techniques, this textbook pays particular attention to the internationally recognised guidelines for calculating and expressing measurement uncertainty. This new edition has been revised to incorporate Excel® 2010. It also provides a practical approach to fitting models to data using non-linear least squares, a powerful technique which can be applied to many types of model. Worked examples using actual experimental data help students understand how the calculations apply to real situations. Over 200 in-text exercises and end-of-chapter problems give students the opportunity to use the techniques themselves and gain confidence in applying them. Answers to the exercises and problems are given at the end of the book.

Book Information

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"[The book is] illustrated with many worked examples and exercises (with answers at the back) which will make the book a useful...teaching resource. The material is well presented, with a useful set of appendices giving more theoretical detail, and summarizing useful formula." P.T. Greenland in Contemporary Physics

Introducing data analysis techniques, this new edition has been revised to incorporate Excel®

2010 to help undergraduate students develop the tools necessary for studying and working in the physical sciences. It features worked examples using actual experimental data, and over 200 in-text exercises and end-of-chapter problems.

This book is an introduction to data analysis with an interesting collection of problems at the end of each chapter. All the contents of the book are illustrated using excel. The book is very well structured, from a nice introduction to the statistical distributions to the hypothesis testing. In my opinion the opinion the too much introductory and many of the contents of the book are better explained in other sources even with the use of excel (for example Advanced Excel for scientific data analysis by Robert de LevieÂ Advanced Excel for scientific data analysis, 3rd edition). The book seems a collection of recipes for the statistical analysis of data. For example the known formula for the propagation of the imprecision is in an appendix at the end of the book. This question is one of the cores of any book regarding these subjects and should be inside the book. The inclusion of statistical tables at the end of the book has no sense because all of them can be obtain using excel (as the book explain)

This would be a great book if the reader had access to the data files. Most of the data sets are small but I don't feel as though I should have to reconstruct them.

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