



## Statistics and Analysis of Scientific Data (Hardback)

By Massimiliano Bonamente

Springer-Verlag New York Inc., United States, 2016. Hardback. Condition: New. 2nd ed. 2017. Language: English . Brand New Book. The revised second edition of this textbook provides the reader with a solid foundation in probability theory and statistics as applied to the physical sciences, engineering and related fields. It covers a broad range of numerical and analytical methods that are essential for the correct analysis of scientific data, including probability theory, distribution functions of statistics, fits to two-dimensional data and parameter estimation, Monte Carlo methods and Markov chains. Features new to this edition include: \* a discussion of statistical techniques employed in business science, such as multiple regression analysis of multivariate datasets.\* a new chapter on the various measures of the mean including logarithmic averages.\* new chapters on systematic errors and intrinsic scatter, and on the fitting of data with bivariate errors.\* a new case study and additional worked examples.\* mathematical derivations and theoretical background material have been appropriately marked, to improve the readability of the text.\* end-of-chapter summary boxes, for easy reference. As in the first edition, the main pedagogical method is a theory-then-application approach, where emphasis is placed first on a sound understanding of the underlying theory of...

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