



A Practical Introduction to Applied Statistics for Materials Scientists and Engineers (Paperback)

By David J Keffer

Createspace, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.Materials Scientists and Engineers work in a quantitative field in which the mechanical, thermodynamic, rheological and electronic properties of the materials are described with numbers. Therefore, a basic proficiency in applied statistics is necessary to be able to interpret and communicate the significance and reliability of these numbers. The numbers provide the technical basis upon which are made engineering decisions that impact the successful deployment of the material and ultimately the success of the project, including many elements such as public safety. Understanding the statistical confidence in these numbers is therefore of practical significance. This book provides a practical but fundamental mathematical understanding of applied statistics and the theory of probability that underlies it. This book is targeted at undergraduates. It is used in a course during the third year that covers both applied statistics and numerical methods. Thus, the contents herein are intended to cover half of one semester. The content is divided into six chapters (or modules), covering (1) probability, (2) random variables, (3) expectations, (4) discrete distributions, (5) continuous distributions and (6) sampling and estimation....



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