



METADATA

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Abstract

This book attempts an introduction to the most basic topics of Probability and Statistics, without requiring prior knowledge of these topics. Thus, intuition plays a primary role in the introduction of concepts and the development of methodology. Mathematical rigor is maintained wherever possible. In this context, the book consists of ten chapters, in which the most basic concepts and methodologies of Probability and Statistics unfold. In the last chapter, a recapitulation-epilogue of the book is attempted in which the methodologies of the previous chapters are applied and data and examples presented in them are analyzed with the help of the SPSS statistical package. This book was written to serve as an introductory aid for all those who wish to acquire an introductory knowledge of the most basic concepts and methodologies of Probability Theory and Statistics. The methodology is introduced, structured, developed and justified in an intuitive way, with the help of an example. The usual

mathematical-formalistic formulation of the statistical model is not followed; it is presented with its intuitive perspective. Thus, although the book aims mainly to an audience with limited mathematical knowledge, it can also be used by an audience which is focused on mathematical science or the natural sciences in general, since the intuitive presentation of concepts and methodologies, which are followed in this book, may help to better understand them. This book, in no way, aspires to replace valuable books that are available in the Greek and international bibliography, some of which are mentioned in the recommended bibliography of the Chapters as well as in the overall recommended bibliography at the end of the book. It aspires to present the topics on which it focuses with the "language" of the authors, as it was formed and evolved from the many years of teaching of these topics to large audiences of students who focused their interest on various cognitive and research objects.

