Anderson, Popp-Schaffranek, Steinmetz, Stenger

SCHÄTZEN UND TESTEN

(Estimates and Tests)

Eine Einführung in die Wahrscheinlichkeitsrechnung und schliessende Statistik

Heidelberger Taschenbücher Band 177
Springer Verlag, Berlin, Heidelberg, New York, 1976

The book "Estimates and Tests" written by Prof. Dr. Oskar Anderson, Prof. Dr. Werner Popp, Dr. Manfred Schaffranek, Dieter Steinmetz, Prof. Dr. Horst Stenger, presents an introduction in statistical methods, as well as in those parts of probabilities computation which these are based on.

The work covers five parts, namely: probabilities computation, estimates, selections and evaluation, tests, regression analysis and an annex including statistical tables.

The chapter concerning the probabilities theory is based on inductive statistics, the presentation allowing a future analysis of another statistical works.

In the chapters of inductive statistics, the fundamental ideas regarding the estimates and tests are gradually shown with examples of concrete problems.

Those practical problems related to the statistical sample are minutely presented.

Problems to be solved are proposed at the end of each part, this fact allowing of course, a better understanding of the study.

The text of the book is based on authors' lecture notes held at the Universities in Göttingen, Mannheim and München, reason for which the book understanding demands an average difficulty mathematical knowledge. The necessary explanations for understanding those parts referring to sets algebra and combinatory analysis are given in annex.

The work also includes figures and a references covering many speciality works in this field (in German and English languages).

As regards the statistical methods application, we may say that these statistical methods are widely used in finding the interdependence among several variables in physics, biology, medicine, psychology, linguistics and to a great extent, in economic sciences.

The present book is a valuable quide both for students and specialists in several fields of activity, which want to use the instruments of mathematical statistics in analysing the results of different variants considered by them as analysis, which to allow them to derive more rigurous conclusions concerning the studied problem.

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