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Título: Theory Of Sample Surveys

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Sinopsis

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Sample surveys is the most important branch of statistics. Without sample surveys there is no data, and without data there is no statistics. This book is the culmination of the lecture notes developed by the authors. The approach is theoretical in the sense that it gives mathematical proofs of the results in sample surveys. Intended as a textbook for a one-semester course for undergraduate seniors or first-year graduate students, a prerequisite basic knowledge of algebra, calculus, and statistical theory is required to master the techniques described in this book.

Contents:

Simple Random Sampling

Sampling with Varying Probabilities of Selection

Stratified Sampling

Systematic Sampling

Ratio Method of Estimation

Regression Method of Estimation

Cluster Sampling

Sub-Sampling Two-Stage and Three-Stage Sampling

Double Sampling

Non-Sampling Errors