

## Book Reviews/Reseñas Bibliográficas

### **SURVEY SAMPLING THEORY AND APPLICATIONS**

Raghunath Arnab (2017)

Academic Press

eBook ISBN: 9780128118979

Paperback ISBN: 9780128118481

xv+930

This book has been written for specialists interested in Survey Sampling Theory. The author presents an organized compilation and discussion of the mains of the basics of sampling theory and practice as well as an account on recent developments (repetitive sampling balanced repeated replications, mirror-match Bootstrap, controlled sampling procedures, ranked set sampling). The rationality supporting the methods is conveyed by discussions on concepts as well as some solid proofs of the main results.

The book is of use for teaching undergraduates and graduate students with interests in statistics. It will be of help for senior statisticians.

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### **STATISTICAL INFERENCE IN FINANCIAL AND INSURANCE MATHEMATICS WITH R**

Alexandre Brouste (2017)

ISTE Press – Elsevier

eBook ISBN: 9780081012611

Hardcover ISBN: 9781785480836

XII+ 202

This book is of interest for a wide range of person as it is to be of use by economist, informatics , entrepreneurs, mathematicians and other professionals. The author dealt with presenting the more applied methods of statistical inference, supported by the practice of finance and insurance. The modern practice in these areas uses samples for experimenting. The book provides a basis for computing the needed solutions using R-codes. The issues on local asymptotic normality of the likelihoods are discussed. Proofs of the properties of methods are derived for the most popularly used statistical experiments for finance and insurance research. Non-classic experiments are also described, mainly considering that, they do not use independent and identically distributed samples. They are described and some challenging ideas on the optimizing through using R-codes are presented. The experiments considered are Generalized Linear Models (regression modeling under Gaussian and non-Gaussian distributions), Markov chains and Fractional Gaussian .

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