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| 1. Record Nr.           | UNINA9911046546003321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Autore                  | Efromovich Sam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Titolo                  | Survival Analysis : Efficient Nonparametric Curve Estimation For Censored Data with R Examples / / by Sam Efromovich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pubbl/distr/stampa      | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ISBN                    | 3-031-82814-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Edizione                | [1st ed. 2026.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Descrizione fisica      | 1 online resource (385 pages)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Collana                 | Synthesis Lectures on Mathematics & Statistics, , 1938-1751                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disciplina              | 519                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Soggetti                | Probabilities<br>Statistics<br>Mathematical statistics<br>Nonparametric statistics<br>Regression analysis<br>Applied Probability<br>Statistical Theory and Methods<br>Applied Statistics<br>Parametric Inference<br>Non-parametric Inference<br>Linear Models and Regression                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nota di contenuto       | Chapter 1. Introduction -- Chapter 2. Current Status Censoring -- Chapter 3. Right-Censoring -- Chapter 4. References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sommario/riassunto      | This textbook provides a unified account of estimating the survival function, hazard rate, cumulative hazard, density, regression, conditional distributions, and linear functionals for the current status censored and right-censored data. The book contains the theory and methodology of efficient estimation, adaptation, dimension reduction, and confidence bands as well as the universal E-estimator for small samples. Exercises and a large number of simulated and real-life examples that can be repeated and modified using the complementary R package are also included. This coverage, together with the intuitive style of presentation, is ideal for people entering this field. The context |

is suitable for self-study or a one-semester course for graduate students with majors ranging from biostatistics and data analytics to econometrics and actuarial science. In addition, this book:

- Presents a self-contained review of needed facts from probability as well as parametric and nonparametric statistics
- Introduces the asymptotic theory and the proposed methodology of efficient estimation
- Formulates topics for future research for both Ph.D. students and specialists

About the Author Sam Efromovich, Ph.D., is an Endowed Professor and the Head of Actuarial Program in the Department of Mathematical Sciences at The University of Texas at Dallas. He is an Elected Fellow of the American Statistical Association and of the Institute of Mathematical Statistics and is well known for his work on the theory and applications of nonparametric curve estimation.

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