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Autore	Lee Elisa T
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Distributions; 5.1 Comparison of Two Survival Distributions; 5.2 Mantel-Haenszel Test; 5.3 Comparison of K (K > 2) Samples Bibliographical RemarksExercises; 6 Some Well-Known Parametric Survival Distributions and Their Applications; 6.1 Exponential Distribution; 6.2 Weibull Distribution; 6.3 Lognormal Distribution; 6.4 Gamma and Generalized Gamma Distributions; 6.5 Log-Logistic Distribution; 6.6 Other Survival Distributions; Bibliographical Remarks; Exercises; 7 Estimation Procedures for Parametric Survival Distributions without Covariates; 7.1 General Maximum Likelihood Estimation Procedure; 7.2 Exponential Distribution; 7.3 Weibull Distribution; 7.4 Lognormal Distribution
7.5 Standard and Generalized Gamma Distributions7.6 Log-Logistic Distribution; 7.7 Other Parametric Survival Distributions; Bibliographical Remarks; Exercises; 8 Graphical Methods for Survival Distribution Fitting; 8.1 Introduction; 8.2 Probability Plotting; 8.3 Hazard Plotting; 8.4 Cox-Snell Residual Method; Bibliographical Remarks; Exercises; 9 Tests of Goodness of Fit and Distribution Selection; 9.1 Goodness-of-Fit Test Statistics Based on Asymptotic Likelihood Inferences; 9.2 Tests for Appropriateness of a Family of Distributions
9.3 Selection of a Distribution Using BIC or AIC Procedures9.4 Tests for a Specific Distribution with Known Parameters; 9.5 Hollander and Proschan's Test for Appropriateness of a Given Distribution with Known Parameters; Bibliographical Remarks; Exercises; 10 Parametric Methods for Comparing Two Survival Distributions; 10.1 Likelihood Ratio Test for Comparing Two Survival Distributions; 10.2 Comparison of Two Exponential Distributions; 10.3 Comparison of Two Weibull Distributions; 10.4 Comparison of Two Gamma Distributions; Bibliographical Remarks; Exercises
11 Parametric Methods for Regression Model Fitting and Identification of Prognostic Factors

Sommario/riassunto

Third Edition brings the text up to date with new material and updated references.New content includes an introduction to left and interval censored data; the log-logistic distribution; estimation procedures for left and interval censored data; parametric methods iwth covariates; Cox's proportional hazards model (including stratification and time-dependent covariates); and multiple responses to the logistic regression model.Coverage of graphical methods has been deleted. Large data sets are provided on an FTP site for readers' convenience. Bibliographic remarks conclude each