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Nota di contenuto	Cover; Title Page; Copyright Page; CONTENTS; List of Figures; List of Tables; Preface; Glossary; List of Symbols; 1 Introduction; 1.1 Objective of the Book; 1.2 Models under Consideration; 1.2.1 Location Model; 1.2.2 Simple Linear Model; 1.2.3 ANOVA Model; 1.2.4 Parallelism Model; 1.2.5 Multiple Regression Model; 1.2.6 Ridge Regression; 1.2.7 Multivariate Model; 1.2.8 Simple Multivariate Linear Model; 1.3 Organization of the Book; 1.4 Problems; 2 Preliminaries; 2.1 Normal Distribution; 2.2 Chi-Square Distribution; 2.3 Student's t-Distribution; 2.4 F-Distribution 2.5 Multivariate Normal Distribution2.6 Multivariate t-Distribution; 2.6.1 Expected Values of Functions of $M_t^{(p)}( , ^2V_p, o) -$ Variables; 2.6.2 Sampling Distribution of Quadratic Forms; 2.6.3 Distribution of Linear Functions of t-Variables; 2.7 Problems; 3 Location Model; 3.1 Model Specification; 3.2 Unbiased Estimates of and $\wedge^2$ and Test of Hypothesis; 3.3 Estimators; 3.4 Bias and MSE Expressions of the Location Estimators; 3.4.1 Analysis of the Estimators of Location Parameter; 3.5 Various Estimates of Variance; 3.5.1 Bias and MSE Expressions of the Variance Estimators 3.5.2 Analysis of the Estimators of the Variance Parameter3.6 Problems;

4 Simple Regression Model; 4.1 Introduction; 4.2 Estimation and Testing of ; 4.2.1 Estimation of ; 4.2.2 Test of Intercept Parameter; 4.2.3 Estimators of and ; 4.3 Properties of Intercept Parameter; 4.3.1 Bias Expressions of the Estimators; 4.3.2 MSE Expressions of the Estimators; 4.4 Comparison; 4.4.1 Optimum Level of Significance of  $\beta_0$ ; 4.5 Numerical Illustration; 4.6 Problems; 5 ANOVA; 5.1 Model Specification; 5.2 Proposed Estimators and Testing; 5.3 Bias, MSE, and Risk Expressions; 5.4 Risk Analysis  
 5.4.1 Comparison of  $\beta_0$  and  $\beta_0$ ; 5.4.2 Comparison of  $\beta_0$  and  $\beta_0$  ( $\beta_0$ ); 5.4.3 Comparison of  $\beta_0$ ,  $\beta_0$ ,  $\beta_0$ , and  $\beta_0$ ; 5.4.4 Comparison of  $\beta_0$  and  $\beta_0$ ; 5.5 Problems; 6 Parallelism Model; 6.1 Model Specification; 6.2 Estimation of the Parameters and Test of Parallelism; 6.2.1 Test of Parallelism; 6.3 Bias, MSE, and Risk Expressions; 6.3.1 Expressions of Bias, MSE Matrix, and Risks of  $\beta_0$ ,  $\beta_0$ ,  $\beta_0$ , and  $\beta_0$ ; 6.3.2 Expressions of Bias, MSE Matrix, and Risks of the PTEs of and ; 6.3.3 Expressions of Bias, MSE Matrix, and Risks of the SSEs of and  
 6.3.4 Expressions of Bias, MSE Matrix, and Risks of the PRSEs of and  
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 8.4.2 Comparison between  $\beta_0(k)$  and  $\beta_0(k)$

## Sommario/riassunto

"This book summarizes the results of various models under normal theory with a brief review of the literature. Statistical Inference for Models with Multivariate t-Distributed Errors: Includes a wide array of applications for the analysis of multivariate observations Emphasizes the development of linear statistical models with applications to engineering, the physical sciences, and mathematics Contains an up-to-date bibliography featuring the latest trends and advances in the field to provide a collective source for research on the topic Addresses linear regression models with non-normal errors with practical real-world examples Uniquely addresses regression models in Student's t-distributed errors and t-models Supplemented with an Instructor's Solutions Manual, which is available via written request by the Publisher