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Nota di contenuto	Contents; Preface; 1 Preliminaries; 1.1 Overview; 1.2 Multivariate Normal and Wishart Distributions; 1.3 Elliptically Symmetric Distributions; 1.4 Group Invariance; 1.5 Problems; 2 Generalized Least Squares Estimators; 2.1 Overview; 2.2 General Linear Regression Model; 2.3 Generalized Least Squares Estimators; 2.4 Finiteness of Moments and Typical GLSEs; 2.5 Empirical Example: CO[sub(2)] Emission Data; 2.6 Empirical Example: Bond Price Data; 2.7 Problems; 3 Nonlinear Versions of the Gauss-Markov Theorem; 3.1 Overview; 3.2 Generalized Least Squares Predictors 3.3 A Nonlinear Version of the Gauss-Markov Theorem in Prediction3.4 A Nonlinear Version of the Gauss-Markov Theorem in Estimation; 3.5 An Application to GLSEs with Iterated Residuals; 3.6 Problems; 4 SUR and Heteroscedastic Models; 4.1 Overview; 4.2 GLSEs with a Simple Covariance Structure; 4.3 Upper Bound for the Covariance Matrix of a GLSE; 4.4 Upper Bound Problem for the UZE in an SUR Model; 4.5 Upper

Bound Problems for a GLSE in a Heteroscedastic Model; 4.6 Empirical Example: CO[sub(2)] Emission Data; 4.7 Problems; 5 Serial Correlation Model; 5.1 Overview
5.2 Upper Bound for the Risk Matrix of a GLSE5.3 Upper Bound Problem for a GLSE in the Anderson Model; 5.4 Upper Bound Problem for a GLSE in a Two-equation Heteroscedastic Model; 5.5 Empirical Example: Automobile Data; 5.6 Problems; 6 Normal Approximation; 6.1 Overview; 6.2 Uniform Bounds for Normal Approximations to the Probability Density Functions; 6.3 Uniform Bounds for Normal Approximations to the Cumulative Distribution Functions; 6.4 Problems; 7 Extension of Gauss-Markov Theorem; 7.1 Overview; 7.2 An Equivalence Relation on S(n); 7.3 A Maximal Extension of the Gauss-Markov Theorem
7.4 Nonlinear Versions of the Gauss-Markov Theorem7.5 Problems; 8 Some Further Extensions; 8.1 Overview; 8.2 Concentration Inequalities for the Gauss-Markov Estimator; 8.3 Efficiency of GLSEs under Elliptical Symmetry; 8.4 Degeneracy of the Distributions of GLSEs; 8.5 Problems; 9 Growth Curve Model and GLSEs; 9.1 Overview; 9.2 Condition for the Identical Equality between the GME and the OLSE; 9.3 GLSEs and Nonlinear Version of the Gauss-Markov Theorem; 9.4 Analysis Based on a Canonical Form; 9.5 Efficiency of GLSEs; 9.6 Problems; A: Appendix
A.1 Asymptotic Equivalence of the Estimators of in the AR(1) Error Model and Anderson ModelBibliography; Index; A; B; C; D; E; G; H; I; K; L; M; N; O; R; S; U; W

Sommario/riassunto

Generalised Least Squares adopts a concise and mathematically rigorous approach. It will provide an up-to-date self-contained introduction to the unified theory of generalized least squares estimations, adopting a concise and mathematically rigorous approach. The book covers in depth the 'lower and upper bounds approach', pioneered by the first author, which is widely regarded as a very powerful and useful tool for generalized least squares estimation, helping the reader develop their understanding of the theory. The book also contains exercises at the end of each chapter and applicati

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Nota di contenuto	SECONDARY METABOLITES: THEIR FUNCTION AND EVOLUTION; Contents; Introduction; Microbial secondary metabolism: a new theoretical frontier for academia, a new opportunity for industry; Evolution of secondary metabolite production: potential roles for antibiotics as prebiotic effectors of catalytic RNA reactions; Why are secondary metabolites synthesized? Sophistication in the inhibition of cell wall biosynthesis by vancomycin group antibiotics; Origins of secondary metabolism; Genes for polyketide secondary metabolic pathways in microorganisms and plants Genes for the biosynthesis of B-lactam compounds in microorganismsRegulation of gibberellin formation by the fungus Gibberella fujikuroi; Genetic regulation of secondary metabolic pathways in Streptomyces; Terpenoid cyclases: design and function of electrophilic catalysts; Role of secondary metabolites from microbes; Self-protection mechanisms in antibiotic producers; Useful functions of microbial metabolites; Secondary metabolites from marine organisms;

	Roles for secondary metabolites in plants; Defensins: endogenous antibiotic peptides from human leukocytes Final discussion: Metabolism and cell individualizationOrigins of secondary metabolism; Index of contributors; Subject index
Sommario/riassunto	A comprehensive review of current thinking on the biosynthesis, function and evolution of secondary metabolites in animals, plants and microorganisms. Examines the traditional context of secondary metabolites as natural products having no obvious part to play in the producing organism's life cycle. Covers issues related to genetic and antibiotic applications.