

CONTENTS

Tests of Multiple Correlation with Additional Data MANZOOR AHMAD	1
On D -, E -, D_A - and D_M - Optimality Properties of Test Procedures of Hypotheses Concerning the Covariance Matrix of a Normal Distribution P.K. BANERJEE and N. GIRI	11
Scaling of Multi-Dimensional Contingency Tables by Union- Intersection ROLF E. BARGMANN	21
The Negative Binomial Point Process and its Inference R.T. BURNETT and M.T. WASAN	31
Tests of Location Based on Principal Components E.M. CARTER	47
Invariant Polynomials with Matrix Arguments and Their Applications YASUKO CHIKUSE	53
A Nonparametric Method to Discriminate two Populations G. GABOR	69
Some Methods of Searching for Outliers JANE F. GENTLEMAN	73
On A Multivariate Statistical Classification Model A.K. GUPTA	83
Some Applications of Conditional Expectation Minimization Theory to Psychological Tests R.P. GUPTA	95
An Application of the Singular Normal Distribution in Linear Models ANANT M. KSHIRSAGAR and NOEL WHEELER	105
Asymptotic Distribution of Quantiles From A Multivariate Distribution K.S. KUAN and MIR M. ALI	109
Distributional Properties of Certain Tests for Detection of Discrete Mass in Cross-Spectra of Multivariate Time Series IAN B. MACNEIL	121
The Effects of Elliptical Distribution on Some Standard Procedures Involving Correlation Coefficients: A Review ROBB J. MUIRHEAD	143
A Review of Step-Down Procedures For Multivariate Analysis of Variance GOVIND S. MUDHOLKAR and PERLA SUBBAIAH	161

On Constrained Least Squares Estimation P. SCOBAY and D.G. KABE	179
Interval Estimation in Models with Distributed Laqs K.R. SHAH and A. EL-SHAARAWI	191
Estimations of Regression Curves When the Conditional Density of the Predictor Variable is in Scale Exponential Family R.S. SINGH	199
A Technique for Selection of Variables in Multiple Regression UMED SINGH and VRINDA TAYAL	207
Asymptotic Distribution of Latent Roots and Applications M.S. SRIVASTAVA and E.M. CARTER	219
On Approximating Multivariate Distributions W.Y. TAN	237
Robust Estimation of the Variance-Covariance Matrix of Symmetric Multivariate Distributions M.L. TIKU	251
The Analysis of Nonorthogonal Manova Designs Employing Full Rank Multivariate Linear Model NEILL H. TIMM	257
On the Limiting Behaviour of Sample Correlation Coefficients R.J. TOMKINS	275
A Characterization of Multivector Multinomial and Negative Multinomial Distributions DERRICK S. TRACY and DEVA C. DOSS	281