



Statistical Challenges in Modern Astronomy II

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Modern astronomical research faces a vast range of statistical issues which have spawned a revival in methodological activity among astronomers. The Statistical Challenges in Modern Astronomy II conference brought astronomers and statisticians together to discuss methodological issues of common interest. Time series analysis, image analysis, Bayesian methods, Poisson processes, nonlinear regression, maximum likelihood, multivariate classification, and wavelet and multiscale analyses were all important themes. Many problems were introduced at the conference in the context of large-scale astronomical projects including LIGO, AXAF, XTE, Hipparcos, and digitised sky surveys. As such, this volume will be of interest to researchers and advanced students in both fields - astronomers seeking exposure to recent developments in statistics, and statisticians interested in confronting new problems. | 1 Pre and Post Least Squares: The Emergence of Robust Estimation.- 2 Some Recent Developments in Bayesian Analysis, with Astronomical Illustrations.- 3 Bayesian Analysis of Lunar Laser Ranging Data.- 4 Modern Statistical Methods for Cosmological Testing.- 5 Comparing Censoring and Random Truncation via Nonparametric Estimation of a Distribution Function.- 6 Astronomical (Heteroscedastic) Measurement Errors: Statistical Issues and Problems.- 7 New Problems and Approaches Related to Large Databases in Astronomy.- 8 Object Classification in...



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