

Introduction to Robust and Quasi-Robust Statistical Methods 2012 W.J.J. Rey Springer Science & Business Media, 2012 238 pages 9783642693892

Berlin: Springer, 1983. - 238p. The first part surveys available methods of robust and quasi-robust statistical methods. The theory is presented in an expository style and in a unifying manner which allows seemingly disparate items to find their place in a common structure. It then becomes gradually clear that the technical requirements leading to robustness are very demanding. The second part of the book treats the methods as they are encountered in real life situations. Robustness requirements are relaxed a little and "quasi-robust" estimators are obtained; the latter are much simpler. This revised book provides a thorough explanation of the foundation of robust methods, incorporating the latest updates on R and S-Plus, robust ANOVA (Analysis of Variance) and regression. It guides advanced students and other professionals through the basic strategies used for developing practical solutions to problems, and provides a brief background on the foundations of modern methods, placing the new methods in historical context.Â

Covers latest developments in robust regression
Covers latest improvements in ANOVA
Includes newest rank-based methods
Describes and illustrates easy to use software. Read More. Mathematics.Â

Wilcoxon's main research interests are statistical methods, particularly robust methods for comparing groups and studying associations. Text of Introduction to Robust and Quasi-Robust Statistical Methods. by William J. J. Rey. Introduction to Robust and Quasi-Robust Statistical Methods. by William J. J. Rey. Review by: Robert V. Hogg. Journal of the American Statistical Association, Vol. 80, No. 391 (Sep., 1985), p. 784. Published by: American Statistical Association. Stable URL: <http://www.jstor.org/stable/2288518>. Accessed: 16/06/2014 01:37.Â

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ern robust statistical methods alleviate the problems inherent in using parametric methods with violated assumptions, yet modern methods are rarely used by researchers.Â

In the second half of the article, we provide a practical, nontechnical introduction to some modern methods. Problems With Classic Parametric.Â

methods are also robust and more powerful when data are not normally distributed and/or heteroscedastic. Transformations.