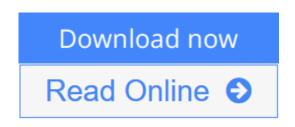# Nonparametric Statistics for Non-Statisticians: A Step-by-Step Approach

By Gregory W. Corder, Dale I. Foreman

Nonparametric Statistics for Non-Statisticians: A Step-by-Step Approach By Gregory W. Corder, Dale I. Foreman

A practical and understandable approach to nonparametric statistics for researchers across diverse areas of study

As the importance of nonparametric methods in modern statistics continues to grow, these techniques are being increasingly applied to experimental designs across various fields of study. However, researchers are not always properly equipped with the knowledge to correctly apply these methods. *Nonparametric Statistics for Non-Statisticians: A Step-by-Step Approach* fills a void in the current literature by addressing nonparametric statistics in a manner that is easily accessible for readers with a background in the social, behavioral, biological, and physical sciences.

Each chapter follows the same comprehensive format, beginning with a general introduction to the particular topic and a list of main learning objectives. A nonparametric procedure is then presented and accompanied by context-based examples that are outlined in a step-by-step fashion. Next, SPSS® screen captures are used to demonstrate how to perform and recognize the steps in the various procedures. Finally, the authors identify and briefly describe actual examples of corresponding nonparametric tests from diverse fields.

Using this organized structure, the book outlines essential skills for the application of nonparametric statistical methods, including how to:

- Test data for normality and randomness
- Use the Wilcoxon signed rank test to compare two related samples
- Apply the Mann-Whitney U test to compare two unrelated samples
- Compare more than two related samples using the Friedman test
- Employ the Kruskal-Wallis H test to compare more than two unrelated samples
- Compare variables of ordinal or dichotomous scales
- Test for nominal scale data

A detailed appendix provides guidance on inputting and analyzing the presented data using SPSS®, and supplemental tables of critical values are provided. In addition, the book's FTP site houses supplemental data sets and solutions for

further practice.

Extensively classroom tested, *Nonparametric Statistics for Non-Statisticians* is an ideal book for courses on nonparametric statistics at the upper-undergraduate and graduate levels. It is also an excellent reference for professionals and researchers in the social, behavioral, and health sciences who seek a review of nonparametric methods and relevant applications.

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Editorial Review

Review
"This would be a very useful resource for courses in nonparametric statistics in which the emphasis is on applications rather than on theory. It also deserves a place in libraries of all institutions where introductory statistics courses are taught." (*CHOICE*, March 2010)

From the Back Cover
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About the Author

Gregory W. Corder is adjunct instructor of undergraduate physics and general science for the College of Science and Mathematics at James Madison University and adjunct instructor of graduate educational statistics for the School of Education and Human Development in the College of Arts and Sciences at Shenandoah University.

Dale I. Foreman is associate professor in the School of Education and Human Development in the College of Arts and Sciences at Shenandoah University, where his teaching is focused on research, measurement, and statistics.

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This Nonparametric Statistics for Non-Statisticians: A Step-by-Step Approach are reliable for you who want to certainly be a successful person, why. The main reason of this Nonparametric Statistics for Non-Statisticians: A Step-by-Step Approach can be among the great books you must have will be giving you more than just simple studying food but feed an individual with information that might be will shock your previous knowledge. This book is usually handy, you can bring it all over the place and whenever your conditions in the e-book and printed types. Beside that this Nonparametric Statistics for Non-Statisticians: A Step-by-Step Approach giving you an enormous of experience for instance rich vocabulary, giving you tryout of critical thinking that we realize it useful in your day exercise. So , let's have it appreciate reading.

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