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Statistics : Statistics for Life Sciences, Medicine, Health Sciences

MacFarland, Thomas W., Yates, Jan M.

Introduction to Nonparametric Statistics for the Biological Sciences Using R

- Eight self-contained lessons instructing how to use R to distinguish between data that could be classified as nonparametric as opposed to data that could be classified as parametric, with both approaches to data classification covered extensively
- From data to final interpretation of outcomes - starts with a simple real-world data set from the biological sciences and outlines step-by-step guidance on how R can be used to address nonparametric data analysis and the generation of graphical images to promote effective communication of outcomes
- Focuses on data review and accompanying data quality review processes - so that outcomes can be trusted and hold up to peer review

This book contains a rich set of tools for nonparametric analyses, and the purpose of this text is to provide guidance to students and professional researchers on how R is used for nonparametric data analysis in the biological sciences: To introduce when nonparametric approaches to data analysis are appropriate To introduce the leading nonparametric tests commonly used in biostatistics and how R is used to generate appropriate statistics for each test To introduce common figures typically associated with nonparametric data analysis and how R is used to generate appropriate figures in support of each data set The book focuses on how R is used to distinguish between data that could be classified as nonparametric as opposed to data that could be classified as parametric, with both approaches to data classification covered extensively.

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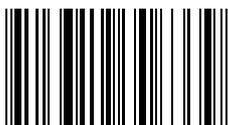
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