

1. Record Nr.	UNINA9910332461203321
Autore	Brunner Edgar
Titolo	Rank and Pseudo-Rank Procedures for Independent Observations in Factorial Designs : Using R and SAS // by Edgar Brunner, Arne C. Bathke, Frank Konietzschke
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-030-02914-X
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (535 pages)
Collana	Springer Series in Statistics, , 0172-7397
Disciplina	610.727 519.5
Soggetti	Statistics Biometry Pharmaceutical technology R (Computer program language) Statistics for Life Sciences, Medicine, Health Sciences Biostatistics Pharmaceutical Sciences/Technology Statistical Theory and Methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Types of Data and Designs -- 2 Distributions and Effects -- 3 Two Samples -- 4 Several Samples -- 5 Two-Factor Crossed Designs -- 6 Designs with Three and More Factors -- 7 Derivation of Main Results -- 8 Mathematical Techniques -- References -- A Software and Program Code -- B Data Sets and Descriptions -- Index. .
Sommario/riassunto	This book explains how to analyze independent data from factorial designs without having to make restrictive assumptions, such as normality of the data, or equal variances. The general approach also allows for ordinal and even dichotomous data. The underlying effect size is the nonparametric relative effect, which has a simple and intuitive probability interpretation. The data analysis is presented as comprehensively as possible, including appropriate descriptive statistics which follow a nonparametric paradigm, as well as

corresponding inferential methods using hypothesis tests and confidence intervals based on pseudo-ranks. Offering clear explanations, an overview of the modern rank- and pseudo-rank-based inference methodology and numerous illustrations with real data examples, as well as the necessary R/SAS code to run the statistical analyses, this book is a valuable resource for statisticians and practitioners alike. .
