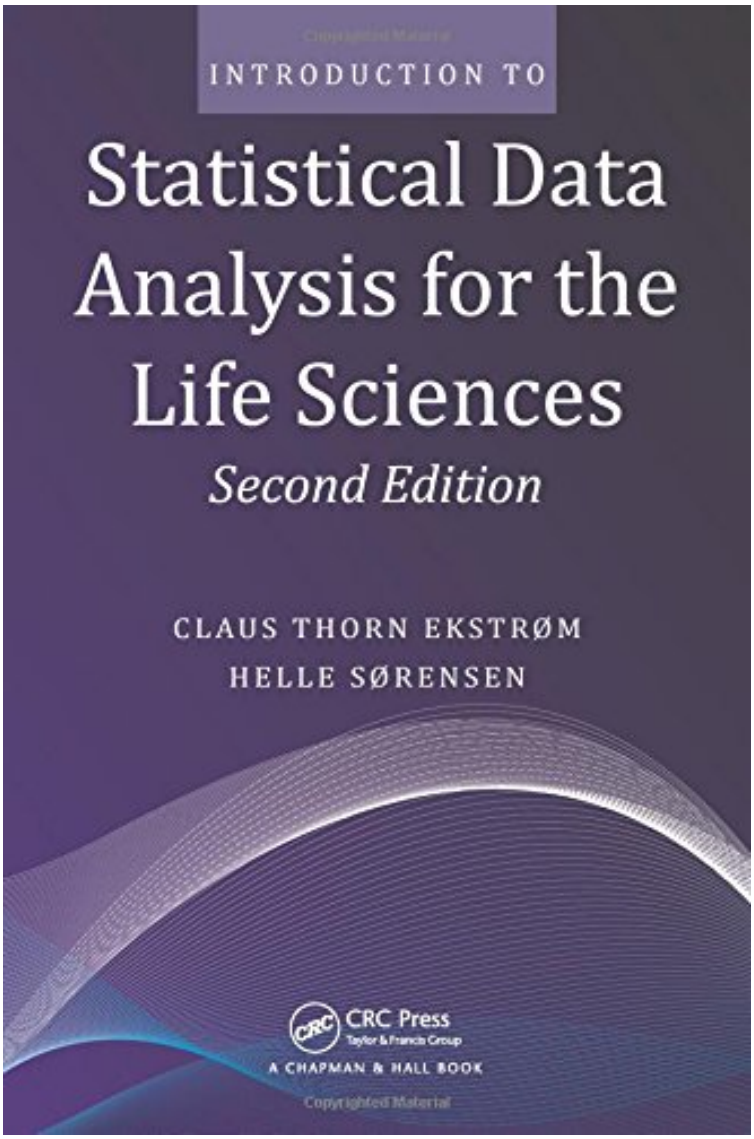
Introduction to Statistical Data Analysis for the Life Sciences, Second Edition

Claus Thorn Ekstrom, Helle Srensen
*ePub | *DOC | audiobook | ebooks | Download PDF*



#1192348 in Books CRC Press 2014-11-08Original language:EnglishPDF # 1 9.25 x 6.00 x 1.00l, .0 #File Name: 1482238934526 pagesCRC Press | File size: 56.Mb

Claus Thorn Ekstrom, Helle Srensen : Introduction to Statistical Data Analysis for the Life Sciences, Second Edition before purchasing it in order to gage whether or not it would be worth my time, and all praised Introduction to Statistical Data Analysis for the Life Sciences, Second Edition:

0 of 0 people found the following review helpful. Great Stats book to learn Stats and RBy kristyUsed this book for a graduate course in statistics in which we used the R software. I love how clear and concise each chapter is and at the

end includes a few examples that were previously shown "by hand" earlier in the chapter, but now show how to perform it in R. I found the end of chapter problems to be progressive in difficultly with the first few problems similar to examples in the book, and the later problems testing understanding of material and application. One thing I found that was unique is the book introduces several examples that we first encounter in the first chapter then as the chapters go on, we revisit the same examples, adding onto them with the knowledge gained. I found this to be very beneficial to see the same data being built upon and shown the evolution of answering the example basic then building up to analyzing the data with advanced statistical methods.Some of my classmates found the book to be difficult, i think some understanding of basic statistics is necessary since the book assumes and doesn't go into great depth on some basic concepts. But having taking a statistics course previously, I had no issue following along and plan to keep this book as reference instead of trying to sell it, that is how much I love this book!1 of 1 people found the following review helpful. Not a great intro to statisticsBy Jake HarrisThis is book is definitely not an intro to statistics or programming with R. The mathematics is fairly formal and I do not recognize many of the variables or formulas despite knowing what the majority of the equations are describing; it is confusing but perhaps it is simply a product of my education in the United States. Additionally, the book mirrors a Goosebumps book written by R.L. Stine given the manner in which it constantly refers the reader to examples many pages forward or back from the current chapter; many examples are not all on one page and examples suffer from lack of tabulation of terms (to clarify for a reader). Would not recommend for beginners in statistics. It may be interesting to someone more advanced in the field, but I also wonder why anyone qualified beyond the introductory level of statistics would need this book unless specifically seeking the exercises in R provided at the end of each chapter.

A Hands-On Approach to Teaching Introductory Statistics Expanded with over 100 more pages, Introduction to Statistical Data Analysis for the Life Sciences, Second Edition presents the right balance of data examples, statistical theory, and computing to teach introductory statistics to students in the life sciences. This popular textbook covers the mathematics underlying classical statistical analysis, the modeling aspects of statistical analysis and the biological interpretation of results, and the application of statistical software in analyzing real-world problems and datasets. New to the Second Edition A new chapter on non-linear regression models A new chapter that contains examples of complete data analyses, illustrating how a full-fledged statistical analysis is undertaken Additional exercises in most chapters A summary of statistical formulas related to the specific designs used to teach the statistical concepts This text provides a computational toolbox that enables students to analyze real datasets and gain the confidence and skills to undertake more sophisticated analyses. Although accessible with any statistical software, the text encourages a reliance on R. For those new to R, an introduction to the software is available in an appendix. The book also includes end-of-chapter exercises as well as an entire chapter of case exercises that help students apply their knowledge to larger datasets and learn more about approaches specific to the life sciences.