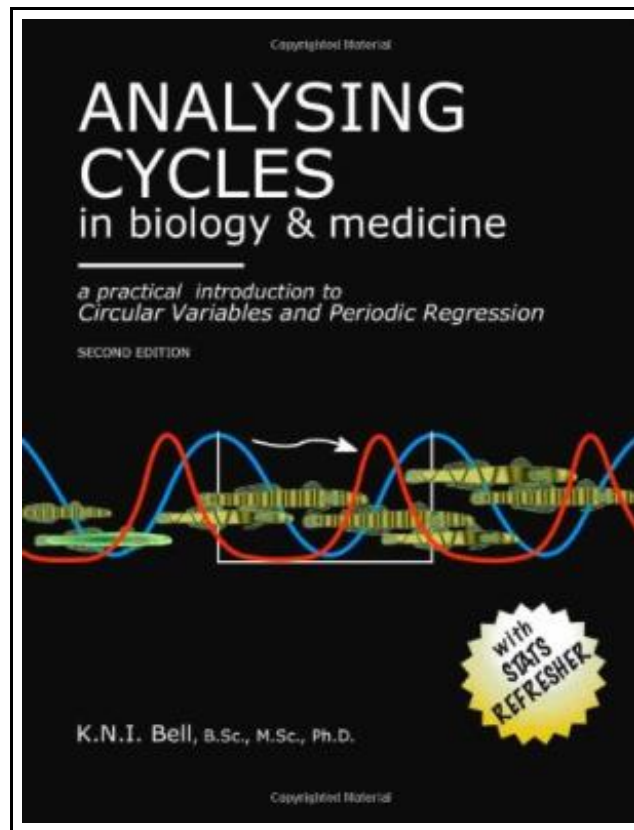


Analysing Cycles in Biology Medicine-A Practical Introduction to Circular Variables Periodic Regression



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Reviews

Extremely helpful to all type of folks. It is among the most awesome pdf i actually have study. I found out this pdf from my dad and i recommended this pdf to discover.
(Dayana Turner)

ANALYSING CYCLES IN BIOLOGY MEDICINE-A PRACTICAL INTRODUCTION TO CIRCULAR VARIABLES PERIODIC REGRESSION



Razorbill Press. Paperback. Book Condition: New. Paperback. 184 pages. Dimensions: 9.7in. x 7.4in. x 0.6in. This book makes periodic regression readily accessible. It provides worked-out examples, and text that describes why each step is taken (and what steps to not take). Periodic regression is suited to situations where a Y variable is measured over (around) a cycle, e. g. air temperature over the course of a day, or year; this is sometimes called the cylindrical situation---think of a 24h clock, lying flat, and temperatures marked on bars at times around its circumference. The uses or periodic regression are not restricted to only those situations where one had a direct interest in the cycles. Even if the interest is the effect of A and B on Y, if a third variable C also affects Y then any analysis obtains improved accuracy for A and B when C is included. Likewise, cycles can affect many measures, so their inclusion improves the analysis for the effects of the variables of main interest. This would apply to many examples of ecological, biological, and medical research. Written in a welcoming style, written to be accessible --- for instance Sec. 11. 1. 2 The very basics (stats in the wild west) --- the book anticipates readers ranging from apprehensive to advanced. Most tricky concepts are explained more than one way. It is copiously illustrated with conceptual diagrams and worked-out examples. If you are an advanced reader you may wish to go straight to Ch. 6, the chapter on periodic regression itself, referring to the cross-referenced sections as needed. Resource chapters provide the basic geometry, key tools for circular stats, the handling of dates and natural cycles, and a simple notation system to make formulas and calculations more readable. There is an index, a glossary, and a Day-of-Year table. Some special tools and topics are addressed....



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