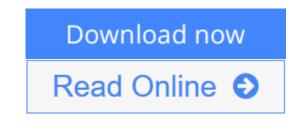# Statistical Methods for Geography

By Peter A. Rogerson

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Statistical Methods for Geography is a systematic introduction to the essential techniques that all students must understand to complete a module in statistical analysis. It provides an integrated overview of spatial data and spatial data analysis.

Key features include:

- An applied focus on methods for geographers: the text presents a detailed discussion of regression analysis and autocorrelation - the principal methods of statistical inference used in geography.

- An introduction to the principles of spatial analysis and spatial patterns, including probability and probability models; hypothesis testing and sampling; analysis of variance; point patterns; and patterns in areal data.

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Editorial Review

Review
Peter Rogerson has provided us with an accessible introduction to the main statistical procedures used by geographers, along with valuable illustrations of how these can be applied using SPSS dor Windows. As a primer in statistical analysis for geographers it will be widely used and appreciated

Professor Ron Johnston
University of Bristol

It should be stated on the outset: this is an excellent textbook recommended for all geographers, students and teachers alike. The book excels in many aspects: its content is rich and well balanced, its clarity is superb, and it is replete with examples and exercises. The book is user-friendly to students who are interested in understanding the application of statistical tests and in properly interpreting the results, rather than in delving in the mathematics involved.

Shaul Krakover
Geography Research Forum

About the Author
I am Professor of Geography and Biostatistics at the University at Buffalo. My research interests are in the area of demography and population change, epidemiology, spatial statistics, and spatial analysis. My current work is focused upon the development of new methods for the quick detection of newly emergent clusters in geographic data (for example, how does one determine as quickly as possible whether there is a new cluster of crime or disease?).

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