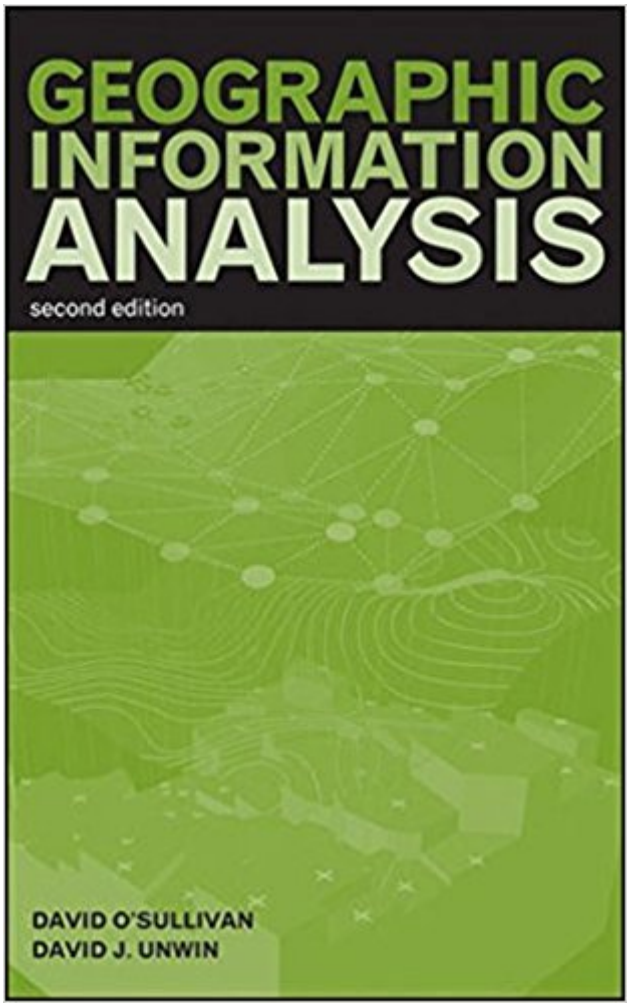
# Geographic Information Analysis



## Synopsis

Clear, up-to-date coverage of methods for analyzing geographical information in a GIS context Geographic Information Analysis, Second Edition is fully updated to keep pace with the most recent developments of spatial analysis in a geographic information systems (GIS) environment. Still focusing on the universal aspects of this science, this revised edition includes new coverage on geovisualization and mapping as well as recent developments using local statistics. Building on the fundamentals, this book explores such key concepts as spatial processes, point patterns, and autocorrelation in area data, as well as in continuous fields. Also addressed are methods for combining maps and performing computationally intensive analysis. New chapters tackle mapping, geovisualization, and local statistics, including the Moran Scatterplot and Geographically Weighted Regression (GWR). An appendix provides a primer on linear algebra using matrices. Complete with chapter objectives, summaries, "thought exercises," explanatory diagrams, and a chapter-by-chapter bibliography, Geographic Information Analysis is a practical book for students, as well as a valuable resource for researchers and professionals in the industry.

## Book Information

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## Customer Reviews

I bought this book to assist with me the geographic analysis of human rights violations in Zimbabwe. I have no prior experience or qualifications in geography or GIS, but have taken to the field through the necesssity of the work that I do. This book is a technical and mathematical introduction to geographical information analysis. It helps you understand the principles of eg kriging, or the

different sorts of geographical data (point, line and polygon) and the kinds of analysis one can do with them. It does this fairly efficiently and it has certainly given me some ideas on possible future paths to take.However, it is more of a technical guide to the methods than an ideas book. And although I did not understand everything on the first pass, I must say that I imagine more experienced or technical people would be rather disappointed at the depth of the content. It seems a bit simple, and is clearly aimed as an undergrad primer.

I read this book because it was required for a graduate level environmental science course. Although it progresses nicely, it gets caught up in the research history pertaining to every model, process etc.. It also lacks application in many instances and guidance on how to conduct the actual analysis. I would recommend this text to be used in purely geography classes and not by separate disciplines that dabble in geography.

I have to admit I am disappointed with the overall text. As an introduction to the field of geographic information analysis, I find the writing less than informative and the "Thought Exercises" provide no utility since there is no legitimate check on learning. The text is littered with vocabulary and formulas, which might be useful, but I found they failed due to lack of context and a real flow to the literature. Perhaps the book is more useful as a supplement to other material.

This is one the most difficult book I have to read for my course. The vocabulary is extremely technical, there are just too many references within the test on studies that were done 30-50-70 years ago, and they just distract you from the main ideas. The examples are also not easy to follow, and I been reading the same page over and over and still I am not sure what the author is trying to say. For GIS professional like myself with 15 years in the field, and used on language used in the books published by ESRI, this is the worst reference material I have encountered. I am still not sure what is the target audience, because I have never encountered such non-GIS feel in the material as in this publication. I feel that author have not worked with GIS community that deal with numerous geospatial problems on day to day basis, but rather with academia where knowledge does not equate with the needs of the GIS workforce.

Geographic Information AnalysisThis book explores and explains the theoretical underpinnings of Geographic information analysis that are easy to ignore when utilizing GIS to manipulate data. A good book for students in geography, GIS and GIS practicioners who are desireous of

understanding the foundations upon which some functionalities in GIS software are built. An affordable resource book that is easy to understand.

Easy to understandSympathetic to the beginnerThey appear earnest in their attempt to educate by providing appendices on fundamentals of statistics and matrix mathsOther books failed to explain MAUP, spatial autocorrelation to me where this one didNice to read a book by cogent authors who make the subject enjoyable.



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