

# Map Analysis

*Understanding Spatial Patterns and Relationships*

**Joseph K. Berry, University of Denver**

<[click here](#) for information about the author>

Online information at <http://www.innovativegis.com/basis/Books/MapAnalysis/>

**Book Description:** The *Map Analysis* book is a collection of selected works from of Joseph K. Berry's popular "Beyond Mapping" columns published in *GeoWorld* magazine from 1996 through 2006. In this compilation Berry develops a structured view of the important concepts, considerations and procedures involved in grid-based map analysis. The companion CD contains further readings and software for hands-on experience with the material presented.

While numerous books focus on Geographic Information Systems (GIS) capabilities of computer mapping and spatial database management, few provide an understanding of its analytical potential and practical realities in a non-technical manner. The unique character of this book draws from the author's ability to convey seemingly complex concepts of spatial data and GIS operations in words that resonant with others less technically versed. The result is a book that engages the reader to "think spatially" and formulate new and innovative solutions to complex spatial problems. Key to this process is a paradigm shift that extends the traditional paper map perspective of "where is what" to the modern perspective of "why and so what." Within this context, maps become data and map analysis becomes the means to derive information about spatial patterns and relationships within and among map layers.

([www.innovativegis.com](http://www.innovativegis.com))

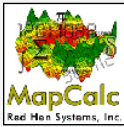
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- ✓ [Click here](#) for a **promotional flier** describing the *Map Analysis* book (.pdf document)
- ✓ [Click here](#) for the **Preface** describing the content and organization of the book and companion CD (.pdf document)
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**Software Description:** ([www.innovativegis.com](http://www.innovativegis.com)) *MapCalc* software by BASIS is used for the hands-on exercises. A copy of MapCalc Learner software is included with the book. The software includes the basic set of data and operations needed to complete the hands-on exercises.

## Understanding GIS Technology

**Software→** ...click on the links for information on grid-based map analysis software



[Evaluation Version](#)  
[MapCalc Tutorials](#)  
[MapCalc Data Sets](#)  
[MapCalc User's Manual](#)

[MapCalc Description & Examples](#) describes MapCalc capabilities using several GIS modeling examples

[GeoWorld Quick-Take Review](#) of *MapCalc Learner*

[Online Paper](#) describing *MapCalc Academic* for instructors

[Cross-reference](#) to ESRI Grid/SpatialAnalyst and ERDAS

[Instructor Materials](#) for grid-based map analysis instruction

[MapCalc Legacy](#) describing the history of the software

Please access the following website containing additional information on map analysis and GIS modeling—

[www.innovativegis.com/basis/](http://www.innovativegis.com/basis/)

...email [jberry@innovativegis.com](mailto:jberry@innovativegis.com) for more information on the *Map Analysis* book

