Map Analysis

Understanding Spatial Patterns and Relationships
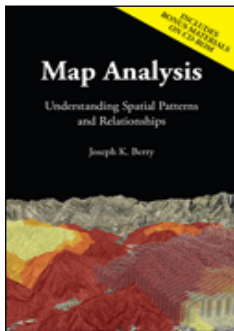
Joseph K. Berry, University of Denver

<_click here_ for information about the author>

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)

➡️ click here **to order** the Map Analysis book with companion CD; $45.00 plus shipping and handling; GeoTec Media publisher [*www.geoplace.com/books/mapanalysis*]

- ✓ 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)
- ✓ Click here for an annotated **Table of Contents** (.pdf document)
- ✓ Click here for an **Example Chapter** on "Calculating Visual Exposure, Topic 5" (.pdf document)
- ✓ Click here for an outline of **CD materials** including Text Figures, Further Reading, Hands-on Experience, Example Applications and Software (.html document)
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Software Description: (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

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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

(Educational Downloads)
MapCalc Learner
MapCalc Tutorials
MapCalc Data Sets
MapCalc User's Manual

Please access the following website containing additional information on map analysis and GIS modeling—
www.innovativegis.com/basis/

...*email* jberry@innovativegis.com *for more information on the* Map Analysis *book.*