# DESCRIPTION

**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.
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David J. Unwin, MPhil, formerly professor of geography at Birkbeck College in the University of London, UK, is now retired. He is also the co-author of Computer Programming for Geographers (with J.A. Dawson) and coeditor of Visualization in Geographic Information Systems (with Hilary M. Hearnshaw), both published by Wiley.

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