

Contents

	List of Plates	xii
ONE	Geographical Information: Society, Science, and Systems	1
TWO	Data Models and Axioms: Formal Abstractions of Reality	17
THREE	Geographical Data in the Computer	35
FOUR	Data Input, Verification, Storage, and Output	75
FIVE	Creating Continuous Surfaces from Point Data	98
SIX	Optimal Interpolation using Geostatistics	132
SEVEN	The Analysis of Discrete Entities in Space	162
EIGHT	Spatial Analysis using Continuous Fields	183
NINE	Errors and Quality Control	220
TEN	Error Propagation in Numerical Modelling	241
ELEVEN	Fuzzy Sets and Fuzzy Geographical Objects	265
TWELVE	Current Issues and Trends in GIS	292
APPENDIX 1	Glossary of Terms	298
APPENDIX 2	A Selection of World Wide Web Geography and GIS Servers	307
APPENDIX 3	Example Data Sets	309
	References	312
	Index	327