



REVIEW

Numerical Analysis for the Geological Sciences, by James R. Carr. Prentice-Hall, Englewood Cliffs, New Jersey, 1995. 392 p. ISBN 0-02-319511-8, US\$69.00.

Numerical Analysis for the Geological Sciences is a textbook primarily written for "geologists, geological (and geotechnical) engineers, environmental engineers, civil engineers, mining engineers, and petroleum engineers." The text is aimed at students in upper level undergraduate courses. The introduction provides a description of how such a text might be integrated into existing undergraduate teaching programs, a list of computer software (written in FORTRAN 77), notes for instructors, and a simple problem-solving strategy for students. Each chapter builds on ideas developed in a previous chapter and from this perspective, the book is well organized. The Table of Contents and Index are detailed sufficiently.

The text is divided into eleven chapters and two appendices which cover the following topics: calculus, theory of error, matrix algebra, probability and statistics, multivariate data analysis, geostatistics, computer graphics, finite element analysis, digital image processing, and fractals. Also included with the book are two diskettes containing FORTRAN 77 computer programs that can be used in conjunction with the examples in the text. These programs also are available on the IAMG ftp site (<http://www.iamg.org>). The author has produced an Instructor's Manual which provides answers for the exercises that are given in the text. Undoubtedly it will be a useful aid to those who use this book as part of a teaching curriculum.

Chapters 1 and 3 review basic calculus and matrix algebra, respectively.

Chapter 2 begins with an interesting anecdotal note on the genius of Carl Friedrich Gauss. Gauss' apparent mathematical skills were recognized at the age of three. Hopefully, such an anecdote will not intimidate those with a weak stomach for mathematics and statistics! The chapter discusses the theory of errors as developed by Gauss and contemporaries, Legendre and Laplace. The usefulness of calculus is introduced in the form of Gaussian quadrature by integrating a function over a range of values. The chapter extends the application of error theory to the derivation of methods of linear least-squares regression. Although this classical approach to fitting a straightline is an important concept in data analysis, it should not be the only technique to be mentioned. In many types of geological data both the dependent and independent and independent variables may be subject to error. In

this situation, classical regression techniques may be misleading. Leading aside methods that are concerned with robust statistical methods, at the very least, the reduced major-axis method of regression should be introduced at this point. The chapter concludes with the introduction of solving simultaneous equations using the method of Gaussian elimination.

Chapter 4, an overview of probability and statistics, introduces the concepts of statistical parameters (mean and variance). Probability is introduced along with conditional probability, and Bayes' Theorem. This basic introduction of probability is extended to continuous random variables from which the probability density functions are derived including the Gaussian, lognormal, and Poisson distributions. Graphical descriptions of data including the histogram and probability plot are introduced as a way to visually examine distributions. Additional statistical concepts that are introduced include the arithmetic mean, median, variance, correlation coefficient, and autocorrelation.

Chapter 5 provides an introduction to multivariate data analysis. The chapter discusses briefly the use of principal components analysis, factor analysis, correspondence analysis, and discriminant analysis. This chapter is weak in its description of multivariate methods. The author places much emphasis on the use of correspondence analysis in the form of a detailed example. A noteworthy discussion is provided as how to account for missing data in correspondence analysis. It is unfortunate that the chapter does not elaborate more on the matrix algebra or a brief introduction of the theory behind the methods.

Chapter 6, "Geostatistics: The Art of Spatial Analysis," begins with a brief history of geostatistics followed by a description of the widely used geostatistical terminology. Kriging is introduced directly from the approach of Gauss' theory of errors using a simple example of 12 points on a plane. A detailed mathematical derivation of the kriging weights and the estimation of the error is supplied in the context of information provided in the preceding chapters. Autocovariance is defined and its derivation is shown by the use of the semivariogram. There is a detailed discussion on the derivation of semivariograms including the use of histograms and probability plots that identify outliers that can influence semivariogram calculations. Models of semivariograms are discussed as a way for competing kriging weights. The description of semivariogram models and associated properties is well written and

Geographical Information Handling Research And Applications

Chris B. Jones



Geographical Information Handling Research And Applications:

Socio-Economic Applications of Geographic Information Science David Kidner, Gary Higgs, Sean White, 2002-12-05

To date no one volume in the Innovations in GIS series has been given over to solely highlighting the use of up to date GIS based techniques in a range of socio economic applications This monograph redresses this gap The book begins with a short introductory chapter on the fundamental principles of GIS followed by an examination of recent **Application of**

Geographic Information Systems in Hydrology and Water Resources Management Karel Kovar, H. P.

Nachtnebel, 1996 **Geographical Information Handling** Paul M. Mather, 1993 **Geographic Information Research** Massimo Craglia, H. Couclelis, 2020-10-28 The contributors to this edited collection demonstrate that geographic information research is truly global in character cutting across a wide range of disciplines and addressing conceptual methodological technical ethical and political issues alike Of the six themes two are broadly concerned with data integration geographic data infrastructures GIS diffusion and implementation two are more technical and conceptual in nature generalisation concepts and paradigms and two reflect to a larger extent the application driven nature of GIS technology spatial analysis and multimedia Each section is introduced by chapters highlighting the key research issues Further chapters explore these issues in greater depth and benefit from the international collaboration Through the comparison of results included in this book the prospects for advancing the field and addressing the challenges of GIS research are greatly improved **Geographical**

Information Systems and Computer Cartography Chris B. Jones, 2014-05-01 A concise text presenting the fundamental concepts in Geographical Information Systems GIS emphasising an understanding of techniques in management analysis and graphic display of spatial information Divided into five parts the first part reviews the development and application of GIS followed by a summary of the characteristics and representation of geographical information It concludes with an overview of the functions provided by typical GIS systems Part Two introduces co ordinate systems and map projections describes methods for digitising map data and gives an overview of remote sensing Part Three deals with data storage and database management as well as specialised techniques for accessing spatial data Spatial modelling and analytical techniques for decision making form the subject of Part Four while the final part is concerned with graphical representation emphasising issues of graphics technology cartographic design and map generalisation GIS David R. Green, 2018-10-08 In a relatively short time Geographic Information Systems GIS have spread from being primarily a research tool to higher and subsequently secondary education and from the researcher to the user GIS A Sourcebook for Schools is an easily accessible guide to GIS at an elementary level and provides sufficient background in GIS to ensure a comprehensive working knowledge of the subject It is written specifically for schoolteachers looking to incorporate GIS into the secondary school curriculum and will be the essential textbook for all those wishing to gain an introduction to a working knowledge of GIS The book contains everything that a teacher wanting to implement GIS into the curriculum would need including glossary of terms explanation of the

fundamentals definitions and further reading No other book will be quite as useful as this one Geographic Information Analysis David O'Sullivan, David Unwin, 2014-07-30 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 Geographic Information Systems to Spatial Data Infrastructures Ian Masser, 2019-09-25 This book draws on author's wealth of knowledge working on numerous projects across many countries It provides a clear overview of the development of the SDI concept and SDI worldwide implementation and brings a logical chronological approach to the linkage of GIS technology with SDI enabling data The theory and practice approach help understand that SDI development and implementation is very much a social process of learning by doing The author masterfully selects main historical developments and updates them with an analytical perspective promoting informed and responsible use of geographic information and geospatial technologies for the benefit of society from local to global scales Features Subject matter spans thirty years of the development of GIS and SDI Brings a social science perspective into GIS and SDI debates that have been largely dominated by technical considerations Based on a world wide perspective as a result of the author's experience and research in the USA Australia Canada Brazil Peru China India Korea Malaysia and Japan as well as most European countries Draws upon professional and academic experience relating to pioneering UK and European GIS research initiatives Includes updated historical material with an analytical perspective explaining what was done right and what didn't work **GIS in Land and Property Management** Martin P. Ralphs, Peter Wyatt, 2003-09-02 Economists geographers and surveyors are beginning to recognise the powerful tool which a Geographical Information System GIS offers in effective property management It provides a means of managing land and property information digitally and in a geographical context and allows for rapid access to information and a means of analyzing that information in a geographical context GIS in Land and Property Management shows how to use GIS both in principle and in practice It introduces digital mapping and GIS along with a brief history of the development of GIS and LIS all with an emphasis on property In presenting the spectrum of GIS applications in property management it gives a number of case studies from a variety of market sectors

and it analyzes the issues to provide guidance and a number of recommendations for the implementation of GIS. At the same time common themes and issues are drawn out to present a coherent message for students and practitioners. The book is useful for undergraduate and postgraduate students on land management, built environment, economics and geography courses and for property professionals in both public and private sectors looking to GIS as a property management decision aid.

Multidimensional Geographic Information Science Jonathan Raper, 2000-11-23. The way people normally view a GIS is 2 dimensional, a greatly limiting form. However, as developments occur within the field, researchers and practitioners are finding ways to make a GIS 3 dimensional and in some instances even 4 dimensional. Being able to view a GIS in more than 2 dimensions greatly enhances its usability. This forward look in

Modelling Scale in Geographical Information Science Nicholas Tate, Peter M. Atkinson, 2001-12-05. Scale has long been a fundamental concept in geography. Its importance is emphasised in geographical information science (GIScience) where the computational domain necessitates the rigorous definition and handling of scale. Geographical information systems are now used in almost every walk of life but scale is often handled poorly in such systems. *Modelling Scale in Geographical Information Science* is written by an international team of contributors drawn from both industry and academia and considers models and methods of scaling spatial data in both human and physical systems. Divided into three sections to give a balanced coverage of the key problems, tools and models associated with scale: Fractal Models, The Modifiable Areal Unit Problem, Changing the Scale of Measurement. This book is an essential read for all GIScience researchers, advanced students and practitioners who want to delve more deeply into the scale issues of the spatial data and spatial models that form the basis of their analyses.

Geographical Data Nigel Walford, 2002-03-22. Provides a comprehensive overview of the characteristics relating to remote sensing, cartography, censuses, surveys and administrative/statutory. Presents up to date information in this remarkable growth area with clear explanations of the problems and pitfalls as well as the potentiality of analysing geographical data. An ideal book for both those already confident with GIS technology and the novice user. Covers spatial and thematic worldwide geographical data. Exemplifies the problems and pitfalls of using geographical data. Provides introductory details of GIS without the need for a separate text. Refers to the latest internet sources. Covers geographical data relating to the environmental and human domains. Focuses on digital geographical data.

Time-Integrative Geographic Information Systems Thomas Ott, Frank Swiaczny, 2012-12-06. The book deals with the integration of temporal information in Geographic Information Systems. The main purpose of an historical or time integrative GIS is to reproduce spatio-temporal processes or sequences of events in the real world in the form of a model. The model thus making them accessible for spatial query analysis and visualization. This volume reflects both theoretical thoughts on the interrelations of space and time as well as practical examples taken from various fields of application e.g. business data, warehousing, demographics, history and spatial analysis.

Geographical Information Systems Geoffery J. Meaden, Thang Do Chi, 1996-01-01. The late 20th century has witnessed

increasing crises in the world's marine fisheries. A causal analysis of these reveals that a common element are various manifestations of spatial inequity. This most frequently includes the inequity of access rights to the resource but factors such as variations in resource depletion, spatio-temporal variations in stock recruitment, the imposition of regulatory zoning, destruction of marine ecosystems and the siting of mariculture facilities are other examples. To resolve some of these problems, management practices must be improved. As has been shown in other fields where spatially related problems occur, there is now a promising tool: Geographical Information Systems (GIS), which combined with other analytical tools and models could allow for improved spatial management. GIS are basically integrated computer-based systems which allow for the input of digital geo-referenced data to produce maps plus other textual, graphical and tabular output. The essential usefulness of GIS, however, lies in its ability to manipulate data in a large number of ways and to perform various analytical functions so as to produce output which makes for more efficient decision making. As with many computer-based systems, the key to GIS success lies in the acquisition of suitable data. The various means by which both primary and secondary data can be located, gathered, accessed and stored are described.

GIS Fundamentals Stephen Wise, 2018-09-03. With GIS technology increasingly available to a wider audience on devices from apps on smartphones to satnavs in cars, many people routinely use spatial data in a way which used to be the preserve of GIS specialists. However, spatial data is stored and analyzed on a computer, still tends to be described in academic texts and articles which require specialist knowledge or some training in computer science. Developed to introduce computer science literature to geography students, *GIS Fundamentals* Second Edition provides an accessible examination of the underlying principles for anyone with no formal training in computer science. See What's New in the Second Edition: Coverage of the use of spatial data on the Internet; Chapters on databases and on searching large databases for spatial queries; Improved coverage on route finding; Improved coverage of heuristic approaches to solving real-world spatial problems; International standards for spatial data. The book begins with a brief but detailed introduction to how computers work and how they are programmed, giving anyone with no previous computer science background a foundation to understand the remainder of the book. As with all parts of the book, there are also suggestions for further sources of reading. The book then describes the ways in which vector and raster data can be stored and how algorithms are designed to perform fundamental operations such as detecting where lines intersect. From these simple beginnings, the book moves into the more complex structures used for handling surfaces and networks and contains a detailed account of what it takes to determine the shortest route between two places on a network. The final sections of the book review problems such as the Travelling Salesman problem, which are so complex that it is not known whether an optimum solution exists. Using clear, concise language but without sacrificing technical rigour, the book gives readers an understanding of what it takes to produce systems which allow them to find out where to make their next purchase and how to drive to the right place to collect it.

Innovations In GIS Peter Fisher, 1995-05-01. Whither geographical information

systems GIS This book the second in a series presents GIS research at the cutting edge deriving from presentations made to the second GIS Research UK Conference GISRUK a transdisciplinary focus meeting supported by the Association for Geographic Information AGI and the UK Regional Research Laboratories Initiative and comprising contributions all fully reviewed for publication from leading experts from geography computer science land use and resources environmental science ecology and urban and regional planning The book is founded on the premise that GIS is the province of no one discipline and its mission is thus to foster communication to demonstrate the commonality of problems and to offer alternative solutions from a variety of sources It focuses on data base issues attributes their location their appropriate and rapid retrieval spatial analysis the statistical interrogation of spatial and aspatial attributes decision making the interface between people and computational support visualization beyond the metaphor of the static paper map and applications extending the use and usefulness of GIS

GIS Basics Stephen Wise, 2018-10-08 Geographical Information Systems GIS are computer systems for storing displaying and analyzing spatial data The past twenty years have seen a rapid growth in their use in government commerce and academia and they can be used for managing a network of utilities from handling census data through to planning the location of a new supermarket But how do they work Stephen Wise has been a regular contributor to GeoEurope and his Back to Basics articles have provided a clear and simple introduction to the inner workings of GIS for a non specialist audience He now presents the original articles with new material and provides a new coverage of both major types of GIS vector and raster systems Undergraduates and professionals who wish to improve their knowledge of GIS should get a better understanding of how GIS operate in the way that they do such as how spatial data is stored on a computer how the different methods affect the capabilities of the GIS how basic operations performed and how the choice of algorithm affects the speed of the system

Spatial Accuracy Assessment Kim Lowell, Annick Jaton, 2000-03-01 Spatial technologies such as GIS and remote sensing are widely used for environmental and natural resource studies Spatial Accuracy Assessment provides state of the science methods techniques and real world solutions designed to validate spatial data to meet quality assurance objectives and to ensure cost effective project implementation and completion If you use GIS remote sensing and other spatial mapping technologies for resource management land use planning engineering or environmental studies this vital reference will save you time and money

Introduction to GIS Programming and Fundamentals with Python and ArcGIS® Chaowei Yang, 2017-04-25 Combining GIS concepts and fundamental spatial thinking methodology with real programming examples this book introduces popular Python based tools and their application to solving real world problems It elucidates the programming constructs of Python with its high level toolkits and demonstrates its integration with ArcGIS Theory Filled with hands on computer exercises in a logical learning workflow this book promotes increased interactivity between instructors and students while also benefiting professionals in the field with vital knowledge to sharpen their programming skills Readers receive expert guidance on modules package management and

handling shapefile formats needed to build their own mini GIS Comprehensive and engaging commentary robust contents accompanying datasets and classroom tested exercises are all housed here to permit users to become competitive in the GIS IT job market and industry

GIS And Generalisation J-P Lagrange, R Weibel, Jean-Claude Muller, 2020-11-25 This text is the inaugural book in Taylor and Francis's GISDATA series and is derived from the specialist workshop convened under the auspices of the European Science Foundation's GISDATA Scientific Programme Generalisation is an integrating tool for the analysis and presentation of spatial data Effective spatial data analysis requires multiple views of the world at various scales with different thematic layers of representation Generalisation is a key mechanism in this process as it filters out information which is required for particular scales or layers hence it is critical to implement full and comprehensive generalisation capabilities in a GIS something with which few current GIS are equipped This book overviews the core and as yet unresolved issues surrounding the achievement of this goal and presents various alternatives both speculative views and practical examples in the areas of automated generalisation vis a vis problems such as object simplification and placement At the same time it distinguishes between modelling with generalisation and graphical representation and adopts a model building perspective It also describes artificial intelligence techniques for implementing automated generalised routines and addresses issues of data quality and production The text is organized into six parts an introduction generic issue object orientated methods and knowledge based modelling knowledge acquisition and representation data quality and operation and implementation

This book delves into Geographical Information Handling Research And Applications. Geographical Information Handling Research And Applications is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Geographical Information Handling Research And Applications, encompassing both the fundamentals and more intricate discussions.

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