



REVIEW

Numerical Analysis for the Geological Sciences, by James R. Carr. Prentice-Hall, Englewood Cliffs, New Jersey, 1985, 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 (Gangung). 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

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