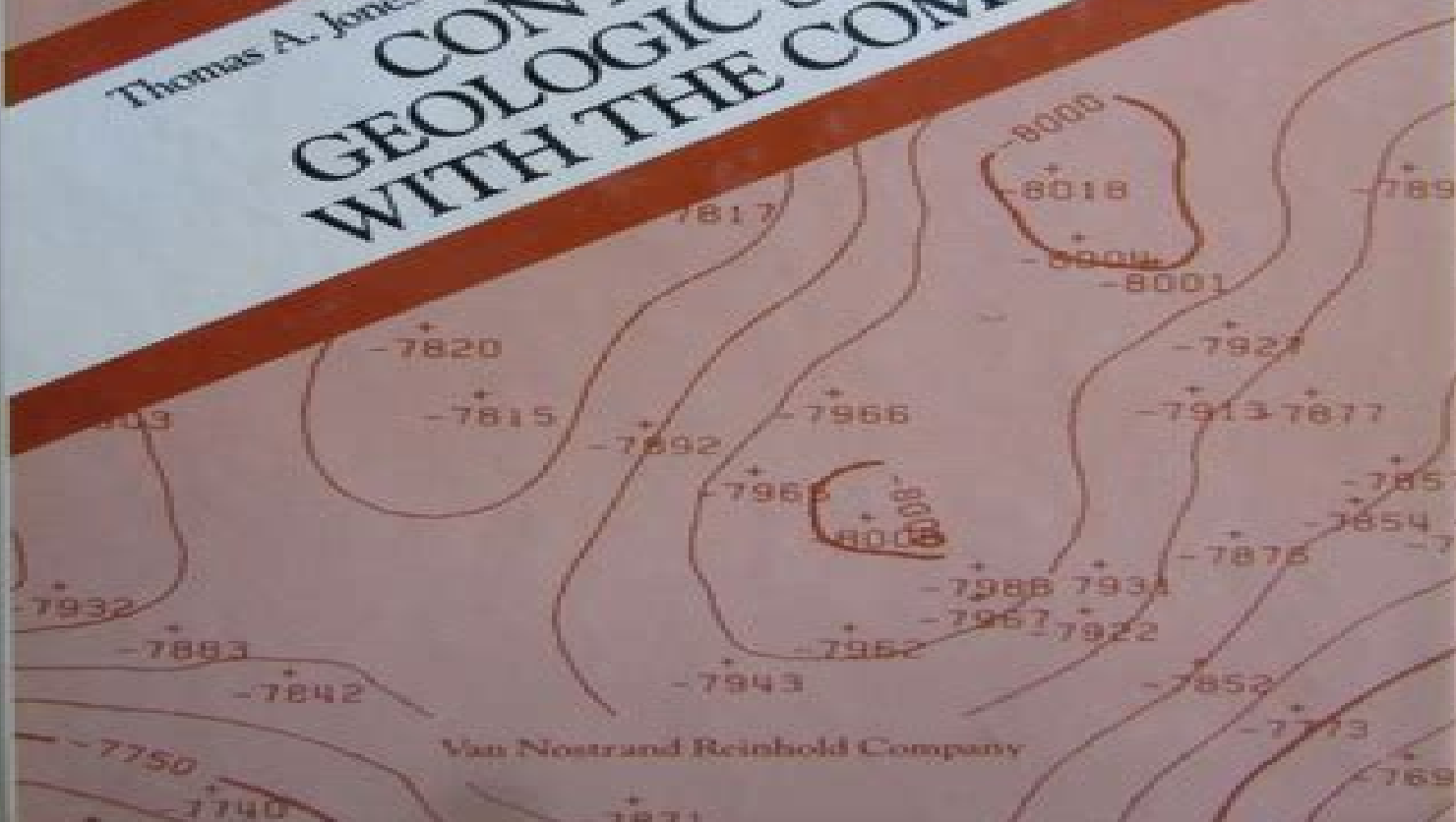




Thomas A. Jones / David E. Hamilton / Carlton R. Johnson

# CONTOURING GEOLOGIC SURFACES WITH THE COMPUTER



Van Nostrand Reinhold Company

# Contouring Geologic Surfaces With The Computer

**Kathleen Armour**



## **Contouring Geologic Surfaces With The Computer:**

*Contouring Geologic Surfaces With The Computer* T.A. Jones, D.E. Hamilton, C.R. Johnson, 1986-10-31      3-D Structural Geology Richard H. Groshong, 2013-03-14 Many important decisions ranging from locating an oil prospect or a land fill site to determining the location and size of an earthquake producing fault are based on geological maps. Because a map scale structure is never completely sampled in three dimensions geological maps and the cross sections derived from maps are always interpretations. The interpretation may be complicated by direct structural observations like bedding attitudes that are misleading because they represent a local structure not the map scale structure. Some data may simply be wrong. The interpretation of the geometry of even a single horizon therefore always involves inferences about the validity and meaning of the observations themselves as well as the nature of the geometry between the observation points. How is an accurate interpretation to be constructed and how is it to be validated once complete? The objective of this book is to demonstrate the concepts and techniques required to obtain the most complete and accurate interpretation of the geometry of structures at the map scale. The methods are designed primarily for interpretations based on outcrop measurements and subsurface information of the type derived from well logs and two dimensional seismic reflection profiles. These forms of information all present a similar interpretive problem which is to define the geometry from isolated and discontinuous observations. The underlying philosophy of interpretation is that structures are three dimensional solid bodies and that data from throughout the body should be integrated into an internally consistent interpretation.      Computer Modeling of Geologic Surfaces and Volumes David E. Hamilton, Thomas A. Jones, 1992      **Structural Geology and Personal Computers** D.G. De Paor, 1996-12-17 This book will help structural geologists keep abreast of rapid changes in work practices resulting from the personal computer revolution. It is organized into six parts: I Computer Aided Learning II Microstructural Analysis III Analysis of Orientation Data IV Strain and Kinematic Analysis V Mathematical and Physical Modeling VI Structural Mapping and GIS. The 45 contributing authors explain how to set up computer aided teaching and learning facilities on a low budget, illustrate tectonic strain concepts with a drawing program, integrate multimedia presentations into structural coursework, analyze microstructures with computer aided microscopy, produce sophisticated stereonet software for both the Mac and IBM PC, evaluate orientation data using a spreadsheet program, model the development of macrostructures and microstructures numerically, integrate structural and geophysical data, and apply PC technology to the production of structural maps, cross sections and block diagrams. The editor's own contributions reveal the inner workings of his renowned structural research applications which are used in hundreds of universities worldwide. Commercial and non commercial applications of particular interest to structural geologists are reviewed. This volume will prove an invaluable resource for professors, instructors and research students as well as research scientists in the public services and exploration industries. If you are such a person, have you lectured with the aid of a gyroscopic mouse? Or used Bzier curves to model heterogeneous

deformation Or analyzed a fold structure using a digital terrain model If not you ll need to rush out and buy this book before the next wave of new technology hits

**Contouring** Debbie Watson,2013-10-22 This unique book is the key to computer contouring exploring in detail the practice and principles using a personal computer Contouring allows a three dimensional view in two dimensions and is a fundamental technique to represent spatial data All aspects of this type of representation are covered including data preparation selecting contour intervals interpolation and gridding computing volumes and output and display Formulated for both the novice and the experienced user this book initially conducts the reader through a step by step explanation of PC software and its application to personal data and then presents the rationale and concepts for contouring using the computer Accompanying the book is a set of BASIC programs in ASCII format on an MS DOS 360KB floppy disk These programs implement eighteen interpolation methods five gradient estimation techniques and seven types of display and are designed to be adapted or combined to suit a wide range of possible objectives concerning either the comparative study of contouring methodology or the practical production of contour displays

Applied Subsurface Geological Mapping with Structural Methods Daniel J. Tearpock,Richard E. Bischke,2002-08-16 Applied Subsurface Geological Mapping With Structural Methods 2nd Edition is the practical up to the minute guide to the use of subsurface interpretation mapping and structural techniques in the search for oil and gas resources Two of the industry s leading consultants present systematic coverage of the field s key principles and newest advances offering guidance that is valuable for both exploration and development activities as well as for detailed projects in maturely developed areas Fully updated and expanded this edition combines extensive information from the published literature with significant material never before published The authors introduce superior techniques for every major petroleum related tectonic setting in the world Coverage includes A systematic ten step philosophy for subsurface interpretation and mapping The latest computer based contouring concepts and applications Advanced manual and computer based log correlation Integration of geophysical data into subsurface interpretations and mapping Cross section construction structural stratigraphic and problem solving Interpretation and generation of valid fault structure and isochore maps New coverage of 3D seismic interpretation from project setup through documentation Compressional and extensional structures balancing and interpretation In depth new coverage of strike slip faulting and related structures Growth and correlation consistency techniques expansion indices Multiple Bischke Plot Analysis vertical separation versus depth and more Numerous field examples from around the world Whatever your role in the adventure of finding and developing oil or gas resources as a geologist geophysicist engineer technologist manager or investor the tools presented in this book can make you significantly more effective in your daily technical or decision oriented activities

Development Geology Reference Manual Diana Morton-Thompson,Arnold M. Woods,1993

Digital Geologic and Geographic Information Systems J. Nicholas Van Driel,John C. Davis,1989

**Modeling Geologic Systems with the Computer** ,1999      **Computer Graphics in Geology** Reinhard Pflug,John

Warvelle Harbaugh,1992      Journal of Sedimentary Petrology ,1987      **Contouring** David F. Watson,1992 This book explores in detail the practice and principles of contouring using a personal computer Contouring allows a three dimensional view in two dimensions and thus is a fundamental technique to represent spatial data All aspects of this type of representation are covered here including data preparation selecting contour intervals interpolation and gridding computing volumes and output and display A set of twelve computer programs in BASIC is included with the book on the diskette and also listed in the appendix A compilation of published prgrams is appended along with a glossary and references to pertinent literature Everything you want or need to know about contouring is included between these two covers      *Cartography and Geographic Information Systems* ,1998      **Exploration with a Computer** William R. Green,1991 A comprehensive guide to the uses of computers in exploration where exploration means the application of scientific methods to discover unknown features of the earth s surface and crust This includes the search for new mineral and oil resources as well as such related problems as identifying geologic hazards and mapping patterns of pollution The emphasis is on the practical aspects of using computers The principles of the various exploration techniques are given only in outline to concentrate on the problems of getting information into a computer acceptable form running programs in an efficient manner and maintaining flexibility in choosing analytical methods The software to do all the tasks related to exploration data analysis is readily available so mathematical details have not been included      Management of Geological Databases Joseph Frizado,1992 A practical guide to the usage of microcomputer database management systems in solving a wide variety of geological problems in which the popular database software programs PC File and dBASE IV are used The first section of the book deals with an introduction to two different database management systems and techniques of electronic data manipulation Each chapter includes exercises enabling the user to readily absorb and apply the material The second half offers several different applications of database management to geological problems Management of Geological Databases will enable geologists to appreciate the general structure of database management programs and how they can be applied to individual problems      **Geographic Information Systems in Petroleum Exploration and Development** Timothy C. Coburn,Jeffrey M. Yarus,2000 A broad view of how the computer technology is being used in the petroleum industry incorporating many products applications geological settings approaches philosophies and operational aspects Within sections on technological foundations practical realities case studies supporting roles and applications geographical information system re      **Environmental Software** ,1986      **Simulating Nearshore Environments** Paul A. Martinez,John Warvelle Harbaugh,1993 Simulating Nearshore Environments provides computer procedures that realistically represent nearshore processes and supplement or replace trial and error methodology The procedures simulate transport by waves and fluvial processes on beaches and deltas at various scales They will aid coastal engineers oceanographers and sedimentary geologists who focus on both modern and ancient nearshore deposits How do you simulate nearshore processes using a computer Can evolving deltaic and coastal

environments be simulated realistically by mathematically representing the physical processes that create them Once the physics and mathematical formulation are described what are the techniques for transforming them into computer programs The authors deal with all these aspects and take a how to approach in guiding the reader through the development of computer models for simulating sediment transport in coastal environments In addition to describing the devised computer programs the book provides a basis for those wishing to formulate their own mathematical models for simulating nearshore processes Geobyte ,1992 **Geological Problem Solving with LOTUS 1-2-3 for Exploration and Mining Geology (with Programs on Diskette)** George S. Koch,1990 Presents effective methods for using Lotus 1 2 3 techniques to solve problems in exploration and mining geology 1 2 3 programmes are provided in conjunction with named worksheets or templates together with brief explanatory text Problem solving is based on a well established and maintained software package A floppy diskette is supplied enabling users following brief instructions to solve problems immediately

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