

Practical Handbook Of Spreadsheet Curves And Geometric Constructions

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Spreadsheets in Structural Design
An Introduction to Computational Geometry for Curves and Surfaces
Railway Track and Structures
Spreadsheet Physics
Horizontal Curve Signing Handbook
Wind Energy, 1994
Practical Manual of Land Development
Spreadsheets for Chemists
Lotus Templates for Production/operations Management
The Complete Manual of Land Planning and Development
Spreadsheet Modeling for Physics
A Guide to Spreadsheets Using VP-Planner
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American Society for Engineering Education. Conference

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practical handbook of spreadsheet curves and geometric constructions presents a compelling description of how to use commercially available spreadsheets to design and create high quality graphs of a variety of curves including classical curves in mathematics the book contains more than 65 models for the geometric construction of families of curves such as strophoids pedals involutes and others models in the book are designed to be interactive so that users can experiment with them to produce eye catching curves designs and patterns examples come from calculus parametric equations constructions of classical families and graphs of conformal mappings of a complex variable the author a leading authority on spreadsheets presents innovative techniques for using spreadsheet graphing to generate large families of lines and circles that describe various curves as envelopes of the families the final chapter of the book discusses the use of commercial spreadsheets to create animation effects the book is heavily illustrated with more than 200 graphs and 60 tables an accompanying 3 5 disk provides 25 selected examples written in quattro pro 2 0 lotus 1 2 3 2 3 and microsoft excel 4 0 designed for both experienced and novice spreadsheet users practical handbook of spreadsheet curves and

geometric constructions will be an invaluable resource for mathematicians engineers scientists and computer scientists the book will also benefit professional artists and designers interested in learning new techniques for producing mathematical curves using spreadsheet software

though japan has successfully competed with u s companies in the manufacturing and marketing of computer hardware it has been less successful in developing computer programs this book contains the first detailed analysis of how japanese firms have tried to redress this imbalance by applying their skills in engineering and production management to software development cusumano focuses on the creation of software factories in which large numbers of people are engaged in developing software in cooperative ways i e individual programs are not developed in isolation but rather utilize portions of other programs already developed whenever possible and then yield usable portions for other programs being written devoting chapters to working methods at system developing corp hitachi toshiba nec and fujitsu and including a comparison of japanese and u s software factories cusumano s book will be important reading for all people involved in software and computer technology as well as those interested in japanese business and corporate culture

spreadsheets in structural design provides a unique and highly practical explanation of the use of spreadsheets to facilitate the design of structures in a range of key materials such as concrete steel and brick using spreadsheets in this way has important implications in terms of cost and efficiency and represents a very useful tool hitherto largely neglected by the design community each chapter contains spreadsheet layouts to illustrate the method drawn from different areas of design and using a range of materials and codes of practice examples used relate to reinforced concrete reinforced masonry and steel but the approach is easily extended to other materials and other fields of design practising structural engineers civil engineers and architects will find this book an invaluable guide for the solution of routine design problems it is also useful reading for advanced undergraduate and postgraduate students of structural design civil engineering and architecture

this is an introductory textbook for undergraduates studying mathematics engineering or computer science and explains how differential and computational geometry are used to explain the mathematics of curves and surfaces it assumes only a basic knowledge of vector and matrix algebra and is filled with numerous exercises solutions and worked examples ideal for those interested in computer graphics or computer aided design this book will be invaluable for those needing to understand the complex mathematics which lies behind these important areas of application

the premier guide of land development professionals this is the essential book for civil engineers in land development and a helpful guide for all land development professionals the newly updated and expanded practical manual of land development provides you with what you need to know about land development engineering step by step instructions for designing grading plans streets roads and highways parking lots sanitary sewers and storm drains complete instructions for civil engineering design from feasibility studies to construction coordination guidelines for preparing cost and fee estimates checklists for plans specifications and estimates an understanding of the influence of other professionals and the public in land development guidance for coordinating with other

land development professionals

a practical guide spreadsheets for chemists shows chemists of all levels how to use spreadsheet programs in their daily work it highlights the possibilities provided by lotus 1 2 3 the most widely used spreadsheet program in the sciences apart from hundreds of example fragments it features detailed discussion of the most relevant functions and all the macro commands an accompanying diskette containing 57 worksheets involving many different fields of chemical research and teaching an extensive glossary of spreadsheet terms three appendices covering 1 2 3 s competitors and add in packages the use of windows based spreadsheets and how what if analysis and back solving is applied although the disk examples were developed for lotus 1 2 3 dos versions 2 x x 2 4 the worksheets are compatible with the newer windows versions and those of their main competitors borland s quattro pro and microsoft s excel several compatible spreadsheets aseasyas proqube might also be as used as inexpensive alternatives the author is a senior scientist at the nuclear research centre in karlsruhe germany he has been using spreadsheet software for nearly ten years successfully in a variety of chemical problems

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