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Spreadsheet Curves And Geometric  
Constructions

## *Practical Handbook Of Spreadsheet Curves And Geometric Constructions*

Book + Content Update Program Master  
core Excel 2016 tools for building  
powerful, reliable spreadsheets with  
Excel 2016 Formulas and Functions.  
Excel expert Paul McFedries shows how  
to use Excel 2016's core features to  
solve problems and get the answers you  
need. Using real-world examples,  
McFedries helps you get the absolute

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most out of features and improvements ranging from AutoFill to Excel's newest functions. Along the way, you discover the fastest, best ways to handle essential day-to-day tasks ranging from generating account numbers to projecting the impact of inflation. Becoming an Excel expert has never been easier! You'll find crystal-clear instructions; insider insights; even complete step-by-step projects for building timesheets, projecting cash

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flow, aging receivables, analyzing defects, and more. • Quickly create powerful spreadsheets with range names and array formulas • Use conditional formatting to instantly reveal anomalies, problems, or opportunities • Analyze your data with standard tables and PivotTables • Use complex criteria to filter data in lists • Understand correlations between data • Perform sophisticated what-if analyses • Use regression to track trends and make

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forecasts • Build loan, investment, and discount formulas • Validate data, troubleshoot problems, and build more accurate, trustworthy spreadsheets In addition, this book is part of Que's exciting Content Update Program. As Microsoft updates features of Excel 2016, sections of this book will be updated or new sections will be added to match the updates to the software. The updates will be delivered to you via a FREE Web Edition of this book,

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which can be accessed with any Internet connection. To learn more, visit [www.quepublishing.com/CUP](http://www.quepublishing.com/CUP). About MrExcel Library: Every book in the MrExcel Library pinpoints a specific set of crucial Excel tasks and presents focused skills and examples for performing them rapidly and effectively. Selected by Bill Jelen, Microsoft Excel MVP and mastermind behind the leading Excel solutions website MrExcel.com, these books will •

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Dramatically increase your productivity—saving you 50 hours a year or more • Present proven, creative strategies for solving real-world problems • Show you how to get great results, no matter how much data you have • Help you avoid critical mistakes that even experienced users make

Modern Differential Geometry of Curves and Surfaces is the first advanced text/reference to explain the mathematics of curves and surfaces and

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describe how to draw the pictures illustrating them using Mathematica,. You learn not only the classical concepts, ideas, and methods of differential geometry, but also how to define, construct, and compute standard functions. You also learn how to create new curves and surfaces from old ones. The book is superb for classroom use and self-study. Material is presented clearly, using over 150 exercises, 175 Mathematica programs, and 225 geometric

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figures to thoroughly develop the topics presented. A brief tutorial explaining how to use Mathematica in differential geometry is included as well. This text/reference is excellent for all mathematicians, scientists, and engineers who use differential geometric methods and investigate geometrical structures.

Fully updated and revised, the second edition of An Atlas of Gynecologic Oncology presents a full description of



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the investigative and surgical procedures carried out by the gynecologic oncologist. Key features of this important text include: a practical guide to a range of operative and investigative procedures contributions from international opinion leaders over 450 colour illustrations

In light of increasing economic and international threats, military operations must be examined with a

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critical eye in terms of process design, management, improvement, and control. Although the Pentagon and militaries around the world have utilized industrial engineering (IE) concepts to achieve this goal for decades, there has been no single resource to bring together IE applications with a focus on improving military operations. Until now. Winner of the 2010 IIE/Joint Publishers Book-of-the-Year Award The Handbook of

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Military Industrial Engineering is the first compilation of the fundamental tools, principles, and modeling techniques of industrial engineering with specific and direct application to military systems. Globally respected IE experts provide proven strategies that can help any military organization effectively create, adapt, utilize, and deploy resources, tools, and technology. Topics covered include: Supply Chain Management and decision

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making Lean Enterprise Concepts for military operations Modeling and optimization Economic planning for military systems Contingency planning and logistics Human factors and ergonomics Information management and control Civilian engineers working on systems analysis, project management, process design, and operations research will also find inspiration and useful ideas on how to effectively apply the concepts covered for non-military uses.

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On the battlefield and in business, victory goes to those who utilize their resources most effectively, especially in times of operational crisis. The Handbook of Military Industrial Engineering is a complete reference that will serve as an invaluable resource for those looking to make the operational improvements needed to accomplish the mission at hand.

A Practical Guide to Effective Policies, Techniques and Processes

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The Book of R

IFIP TC3 / WG3.1 Working Conference on  
Secondary School Mathematics in the  
World of Communication Technology:  
Learning, Teaching and the Curriculum,  
26–31 October 1997, Grenoble, France

Excel 2016 Formulas and Functions  
(includes Content Update Program)

Practical Spreadsheet Modeling Using  
@Risk

Control System Migrations

***Provides a revolutionary conceptual***

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*framework and practical tools to quantify uncertainty and recognize the value of flexibility in real estate development*  
*This book takes a practical "engineering" approach to the valuation of options and flexibility in real estate. It presents simple simulation models built in universal spreadsheet software such as Microsoft Excel®. These realistically reflect the varying and erratic sources of uncertainty and price dynamics that uniquely characterize real estate. The text covers new analytic procedures that*

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*are valuable for existing properties and enable a new, more profitable perspective on the planning, design, operation, and evaluation of large-scale, multi-phase development projects. The book thereby aims to significantly improve valuation and investment decision making.*

*Flexibility and Real Estate Valuation under Uncertainty: A Practical Guide for Developers is presented at 3 levels.*

*First, it introduces and explains the concepts underlying the approach at a basic level accessible to non-technical*



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*and non-specialized readers. Its introductory and concluding chapters present the important “big picture” implications of the analysis for economics and valuation and for project design and investment decision making. At a second level, the book presents a framework, a roadmap for the prospective analyst. It describes the practical tools in detail, taking care to go through the elements of the approach step-by-step for clarity and easy reference. The third level includes more technical details and specific*

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*models. An Appendix discusses the technical details of real estate price dynamics. Associated web pages provide electronic spreadsheet templates for the models used as examples in the book. Some features of the book include: • Concepts and tools that are simple and accessible to a broad audience of practitioners; • An approach relevant for all development projects; • Complementarity with the author's Commercial Real Estate Analysis & Investments—the most-cited real estate investments textbook on the market.*

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*Flexibility and Real Estate Valuation under Uncertainty: A Practical Guide for Developers is for everyone studying or concerned with the implementation of large-scale or multi-phase real estate development projects, as well as property investment and valuation more generally. Presenting theory while using Mathematica in a complementary way, Modern Differential Geometry of Curves and Surfaces with Mathematica, the third edition of Alfred Gray's famous textbook, covers how to define and compute standard*

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*geometric functions using Mathematica for constructing new curves and surfaces from existing ones. Since Gray's death, authors Abbena and Salamon have stepped in to bring the book up to date. While maintaining Gray's intuitive approach, they reorganized the material to provide a clearer division between the text and the Mathematica code and added a Mathematica notebook as an appendix to each chapter. They also address important new topics, such as quaternions. The approach of this book is at times more computational than*

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is usual for a book on the subject. For example, Brioshi's formula for the Gaussian curvature in terms of the first fundamental form can be too complicated for use in hand calculations, but Mathematica handles it easily, either through computations or through graphing curvature. Another part of Mathematica that can be used effectively in differential geometry is its special function library, where nonstandard spaces of constant curvature can be defined in terms of elliptic functions and then

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*plotted. Using the techniques described in this book, readers will understand concepts geometrically, plotting curves and surfaces on a monitor and then printing them. Containing more than 300 illustrations, the book demonstrates how to use Mathematica to plot many interesting curves and surfaces. Including as many topics of the classical differential geometry and surfaces as possible, it highlights important theorems with many examples. It includes 300 miniprograms for computing and plotting*

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*various geometric objects, alleviating the drudgery of computing things such as the curvature and torsion of a curve in space. A comprehensive, single-source reference of current issues in solid waste management designed as an aid in decision-making and assessment of future trends. Covers public perceptions, legislation, regulation, planning and financing, and technologies and operation. Reviews the evolution of waste management since the passage of the Resource Conservation and Recovery Act of 1976, amended in 1978,*

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*1980 and 1984. Examines common and divergent public and private concerns, including an in-depth review of public perceptions and their effect on planning and implementation. Also includes a discussion of the inadequacies of most waste quantity and composition estimates, with techniques for adequate evaluation. Looks at the misunderstanding and controversy over source separation and issues in municipal resource recovery from the viewpoint of the private scrap process industry. Also includes an unprecedented*



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*examination of the problem of bulky waste logistics and its effect on current disposal practice, and case histories and the current status of energy recovery from industrial waste. With over 500 tables, graphs, and illustrations.*

*Computers are playing a fundamental role in enhancing exploratory learning techniques in education. This volume in the NATO Special Programme on Advanced Educational Technology covers the state of the art in the design and use of computer systems for exploratory learning.*

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*Contributed chapters treat principles, theory, practice, and examples of some of the best contemporary computer-based learning environments: Logo, Boxer, Microworlds, Cabri-Géomètre, Star Logo, Table Top, Geomland, spreadsheets, Function Machines, and others. Emphasis is on mathematics and science education. Synthetic chapters provide an overview of the current scene in computers and exploratory learning, and analyses from the perspectives of epistemology, learning, and socio-cultural studies.*

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*Modern Differential Geometry of Curves and  
Surfaces with Mathematica*

*The Active Modeler*

*Investigation and Surgery*

*Proceedings of the First KAIST*

*International Symposium on Teaching  
Books in Print*

*Practical Handbook of Curve Fitting*

Written by leading market risk academic, Professor Carol Alexander, Practical Financial Econometrics forms part two of the Market Risk Analysis four volume set. It introduces the econometric techniques that are commonly applied to finance with a critical selective exposition, emphasising the areas of econometrics, su

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GARCH, cointegration and copulas that are required for resolving problems in market risk analysis. The book covers material for a one-semester graduate course in applied financial econometrics in a very pedagogical fashion as each time a concept is introduced an empirical example is given, and whenever possible this is illustrated with an Excel spreadsheet. All together, the Market Risk Analysis four volume set illustrates virtually every concept or formula with a practical, numerical example or a longer, empirical case study. Across all four volumes there are approximately 300 numerical and empirical examples, 400 graphs and figures and 30 case studies many of which are contained in interactive Excel spreadsheets available from the the accompanying CD-ROM . Empirical examples and case studies specific to this volume include: Factor analysis with orthogonal regressions and using principal

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component factors; Estimation of symmetric and asymmetric, normal and Student t GARCH and E-GARCH parameters; Normal, Student t, Gumbel, Clayton, normal mixture copula densities, and simulations from these copulas with application to VaR and portfolio optimization; Principal component analysis of yield curves with applications to portfolio immunization and asset/liability management; Simulation of normal mixture and Markov switching GARCH returns; Cointegration based index tracking and pairs trading, with error correction and impulse response modelling; Markov switching regression models (Eviews code); GARCH term structure forecasting with volatility targeting; Non-linear quantile regressions with applications to hedging.

This second volume of the Handbook of International Trade focuses on the economic and legal analysis of international laws and

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institutions as they impact trade. Containing chapters written by both economic and legal scholars, this volume encourages cross-discipline discussion with writing that is accessible to those approaching the material from any background. Central issues to those studying international trade are addressed, including: labor environmental rights, and preferential trade agreements antitrust policy patent rights trade liberalization foreign direct investment "Richard Flavell has a strong theoretical perspective on swaps with considerable practical experience in the actual trading of these instruments. This rare combination makes this welcome updated second edition a useful reference work for market practitioners —Satyajit Das, author of Swaps and Financial Derivatives Library and Traders and Guns & Money: Knowns and Unknowns in the Dazzling World of Derivatives Fully revised and updated from the

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first edition, Swaps and Other Derivatives, Second Edition, provides a practical explanation of the pricing and evaluation of swaps and interest rate derivatives. Based on the author's extensive experience in derivatives and risk management, working as a financial engineer, consultant and trainer for a wide range of institutions across the world this book discusses in detail how of the wide range of swaps and other derivatives, such as yield curve, index amortisers, inflation-linked, cross-market, volatility, diff and quanto diffs, are priced and hedged. It also describes the modelling of interest rate curves, and the derivation of implied discount factors from both interest rate swap curves, and cross currency adjusted curves. There are detailed sections on the risk management of swap and option portfolios using both traditional approaches and also Value-at-Risk. Techniques are provided for

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the construction of dynamic and robust hedges, using ideas drawn from mathematical programming. This second edition has expanded sections on the credit derivatives market – its mechanics, how default swaps may be priced and hedged, and how default probabilities may be derived from a market strip. It also prices complex swaps with embedded options, such as range accruals, Bermudan swaptions and target accrual redemption notes, by constructing detailed numerical models such as interest rate tree and LIBOR-based simulation. There is also increased discussion around the modelling of volatility smiles and surfaces. The book is accompanied by a CD-ROM where all the models are replicated, enabling readers to implement the models in practice with the minimum of effort.

The fourth edition of *The Immunoassay Handbook* provides an



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excellent, thoroughly updated guide to the science, technology and applications of ELISA and other immunoassays, including a wealth of practical advice. It encompasses a wide range of methods and gives an insight into the latest developments and applications in clinical and veterinary practice and in pharmaceutical and life science research. Highly illustrated and clearly written, this award-winning reference work provides an excellent guide to this fast-growing field. Revised and extensively updated, with over 30% new material and 77 chapters, it reveals the underlying common principles and simplifies an abundance of innovation. The Immunoassay Handbook reviews a wide range of topics, now including lateral flow, microsphere multiplex assays, immunohistochemistry, practical ELISA development, assay interferences, pharmaceutical applications, qualitative

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immunoassays, antibody detection and lab-on-a-chip. This handbook is a must-read for all who use immunoassay as a tool including clinicians, clinical and veterinary chemists, biochemists, food technologists, environmental scientists, and students and researchers in medicine, immunology and proteomics. It is an essential reference for the immunoassay industry. Provides an excellent revised guide to this commercially highly successful technology in diagnostics and research, from consumer home pregnancy kits to AIDS testing. [www.immunoassayhandbook.com](http://www.immunoassayhandbook.com) is a great resource that we put a lot of effort into. The content is designed to encourage purchases of single chapters or the entire book. David Wild is a healthcare industry veteran, with experience in biotechnology, pharmaceuticals, medical devices and immunodiagnostics, which remains his passion. He worked for

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Amersham, Eastman-Kodak, Johnson & Johnson, and Bristol-Myers Squibb, and consulted for diagnostics and biotechnology companies. He led research and development programs, design and construction of chemical and biotechnology plants, and integration of acquired companies. Director-level positions included Research and Development, Design Engineering, Operations and Strategy, for billion dollar businesses. He retired from full-time work in 2000 to focus on his role as Editor of The Immunoassay Handbook, and advises on product development, manufacturing and marketing. Provides a unique mix of theory, practical advice and application with numerous examples Offers explanations of technologies under development and practical insider tips that are sometimes omitted from scientific papers Includes a comprehensive troubleshooting guide, useful for solving problems and improving assay

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Mathematical Modeling with Microsoft Excel

Theory and Applications of Ligand Binding, ELISA and Related Techniques

Modern Differential Geometry of Curves and Surfaces

Computers and Exploratory Learning

Practical Handbook of Spreadsheet Curves and Geometric Constructions

Market Risk Analysis, Practical Financial Econometrics

**This is an introductory textbook for undergraduates studying mathematics, engineering, or computer science, and explains how differential and computational geometry**

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**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. This concise text on geometry with computer modeling presents some elementary methods for analytical modeling and visualization of curves and surfaces. The author systematically examines such powerful tools as 2-D and 3-D**

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**animation of geometric images, transformations, shadows, and colors, and then further studies more complex problems in differential geometry. Well-illustrated with more than 350 figures---reproducible using Maple programs in the book---the work is devoted to three main areas: curves, surfaces, and polyhedra. Pedagogical benefits can be found in the large number of Maple programs, some of which are analogous to C++ programs, including those for splines and fractals. To avoid tedious typing, readers will be able to download many of the programs from the Birkhauser web site. Aimed at a broad audience**

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**of students, instructors of mathematics, computer scientists, and engineers who have knowledge of analytical geometry, i.e., method of coordinates, this text will be an excellent classroom resource or self-study reference. With over 100 stimulating exercises, problems and solutions, {it Geometry of Curves and Surfaces with Maple} will integrate traditional differential and non- Euclidean geometries with more current computer algebra systems in a practical and user-friendly format.**

**Deryn Watson CapBIT 97, Capacity Building for Information Technologies in Education in Developing Countries, from which this**

**publication derives, was an invited IFIP working conference sponsored by Working Groups in secondary (WG 3. 1), elementary (WG 3. 5), and vocational and professional (WG 3. 4) education under the auspices of IFIP Technical Committee for Education (TC3). The conference was held in Harare, Zimbabwe 25th - 29th August 1997. CapBIT '97 was the first time that the IFIP Technical Committee for Education had held a conference in a developing country. When the Computer Society of Zimbabwe offered to host the event, we determined that the location and conference topic reflect the importance of issues facing countries at all stages of**



**development- especially Information Technologies (IT) development. Information Technologies have become, within a short time, one of the basic building blocks of modern industrial society. Understanding IT, and mastering basic skills and concepts of IT, are now regarded as part of the core education of all people around the world, alongside reading and writing. IT now permeates the business environment and underpins the success of modern corporations as well as providing government with cost-effective civil service systems. At the same time, the tools and technologies of IT are of value in the process of**

**learning, and in the organisation and management of learning institutions.**

**The creation of metropolitan areas is influenced by a wide array of factors, both practical and ecological. They can also be influenced by immaterial characteristics of a given area. The Handbook of Research on Perception-Driven Approaches to Urban Assessment and Design is a scholarly resource that assesses metropolitan development and its relation to the ecological and sustainability issues these areas face. Featuring coverage on a wide range of topics such as user-centered urban planning, perception of urban landscapes, and thermal**

**comfort in urban contexts, this publication is geared toward professionals, practitioners, researchers, and students seeking relevant research on the effective planning of metropolitan areas and their relation to the ecological and sustainability issues that face such areas.**

**Handbook of International Trade  
Interest Rate Markets**

**An Introduction to Computational Geometry for  
Curves and Surfaces**

**The R Book**

**Modern Differential Geometry of Curves and  
Surfaces with Mathematica, Second Edition**

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## **The Solid Waste Handbook**

*A valuable resource for all those involved in the care and rehabilitation of people with disability. Integrates the concepts and principles of rehabilitation with good clinical practice.*

*This book presents a select group of papers that provide a comprehensive view of the models and applications of chaos theory in medicine, biology, ecology, economy, electronics, mechanical, and the human sciences. Covering both the experimental and theoretical aspects of the subject, it examines a range of current topics of interest. It consid*

*The world's most popular spreadsheet program is now more powerful than ever, but it's also more complex. That's*

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where this Missing Manual comes in. With crystal-clear explanations and hands-on examples, *Excel 2013: The Missing Manual* shows you how to master Excel so you can easily track, analyze, and chart your data. You'll be using new features like PowerPivot and Flash Fill in no time. The important stuff you need to know: Go from novice to ace. Learn how to analyze your data, from writing your first formula to charting your results. Illustrate trends. Discover the clearest way to present your data using Excel's new Quick Analysis feature. Broaden your analysis. Use pivot tables, slicers, and timelines to examine your data from different perspectives. Import data. Pull data from a variety of sources, including website data feeds and corporate databases. Work from the Web. Launch and manage your

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*workbooks on the road, using the new Excel Web App. Share your worksheets. Store Excel files on SkyDrive and collaborate with colleagues on Facebook, Twitter, and LinkedIn. Master the new data model. Use PowerPivot to work with millions of rows of data. Make calculations. Review financial data, use math and scientific formulas, and perform statistical analyses.*

*The definitive guide to fixed-income securities-revised to reflect today's dynamic financial environment The Second Edition of the Fixed-Income Securities and Derivatives Handbook offers a completely updated and revised look at an important area of today's financial world. In addition to providing an accessible description of the main elements of the debt market, concentrating on the instruments used*

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*and their applications, this edition takes into account the effect of the recent financial crisis on fixed income securities and derivatives. As timely as it is timeless, the Second Edition of the Fixed-Income Securities and Derivatives Handbook includes a wealth of new material on such topics as covered and convertible bonds, swaps, synthetic securitization, and bond portfolio management, as well as discussions regarding new regulatory twists and the evolving derivatives market. Offers a more detailed look at the basic principles of securitization and an updated chapter on collateralized debt obligations Covers bond mathematics, pricing and yield analytics, and term structure models Includes a new chapter on credit analysis and the different metrics used to measure bond-relative*

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*value Contains illustrative case studies and real-world examples of the topics touched upon throughout the book  
Written in a straightforward and accessible style, Moorad Choudhry's new book offers the ideal mix of practical tips and academic theory within this important field.*

*A Practical Approach to Fixed Income*

*Economic and Legal Analyses of Trade Policy and  
Institutions*

*A Practical Guide*

*Enhancing University Mathematics*

*Numerical and Practical Exercises in Thermoluminescence*

*Cumulative Book Index*

**The International Federation for**



***Information Processing, IFIP, is a multinational federation of professional technical organisations concerned with information processing. IFIP is dedicated to improving communication and increased understanding among practitioners of all nations about the role information processing can play in all walks of life. This Working Conference, Secondary School Mathematics in the World of Communication Technologies:***

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***Learning, Teaching and the Curriculum, was organised by Working Group 3.1, Informatics in Secondary Education, of IFIP Technical Committee for Education, TC3. This is the third conference on this theme organised by WG 3.1, the previous two were held in Varna, Bulgaria, 1977, and Sofia, Bulgaria, 1987-proceedings published by North-Holland Elsevier. The aim of the conference was to take a forward look at the issue of the relationships***

*between mathematics and the new technologies of information and communication in the context of the increased availability of interactive and dynamic information processing tools. The main focus was on the mathematics education of students in the age range of about 11 to 18 years and the following themes were addressed:*

- Curriculum: curriculum evolution; relationships with informatics;*
- Teachers: professional*

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*development; methodology and practice;*

*• Learners: tools and techniques;*

*concept development; research and*

*theory; • Human and social issues:*

*culture and policy; personal impact.*

*This Springer Handbook of Metrology and*

*Testing presents the principles of*

*Metrology – the science of measurement*

*– and the methods and techniques of*

*Testing – determining the*

*characteristics of a given product – as*

*they apply to chemical and*

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*microstructural analysis, and to the measurement and testing of materials properties and performance, including modelling and simulation. The principal motivation for this Handbook stems from the increasing demands of technology for measurement results that can be used globally. Measurements within a local laboratory or manufacturing facility must be able to be reproduced accurately anywhere in the world. The book integrates knowledge from basic*

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*sciences and engineering disciplines, compiled by experts from internationally known metrology and testing institutions, and academe, as well as from industry, and conformity-assessment and accreditation bodies. The Commission of the European Union has expressed this as there is no science without measurements, no quality without testing, and no global markets without standards.*

*Practical Handbook of Spreadsheet*

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***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***

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*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.*



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*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*

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*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.*

*Practical Spreadsheet Modeling Using @Risk provides a guide of how to construct applied decision analysis models in spreadsheets. The focus is on the use of Monte Carlo simulation to*

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*provide quantitative assessment of uncertainties and key risk drivers. The book presents numerous examples based on real data and relevant practical decisions in a variety of settings, including health care, transportation, finance, natural resources, technology, manufacturing, retail, and sports and entertainment. All examples involve decision problems where uncertainties make simulation modeling useful to obtain decision insights and explore*

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***alternative choices. Good spreadsheet modeling practices are highlighted. The book is suitable for graduate students or advanced undergraduates in business, public policy, health care administration, or any field amenable to simulation modeling of decision problems. The book is also useful for applied practitioners seeking to build or enhance their spreadsheet modeling skills. Features Step-by-step examples of spreadsheet modeling and risk***

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*analysis in a variety of fields  
Description of probabilistic methods,  
their theoretical foundations, and  
their practical application in a  
spreadsheet environment Extensive  
example models and exercises based on  
real data and relevant decision  
problems Comprehensive use of the @Risk  
software for simulation analysis,  
including a free one-year educational  
software license*

*The Handbook of Project Management*

***IFIP TC3 WG3.1, 3.4 & 3.5 Working  
Conference on Capacity Building for IT  
in Education in Developing Countries  
19–25 August 1997, Harare, Zimbabwe  
Geometry of Curves and Surfaces with  
MAPLE***

***Flexibility and Real Estate Valuation  
under Uncertainty  
Mathematical, physical, and engineering  
sciences***

***Capacity Building for IT in Education  
in Developing Countries***

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*How to build a framework for forecasting interest rate market movements With trillions of dollars worth of trades conducted every year in everything from U.S. Treasury bonds to mortgage-backed securities, the U.S. interest rate market is one of the largest fixed income markets in the world. Interest Rate Markets: A Practical Approach to Fixed Income details the typical quantitative tools used to analyze rates markets; the range of fixed income products on the cash side; interest rate movements; and, the derivatives side of the business. Emphasizes the importance of hedging and quantitatively managing risks inherent in interest rate trades Details the common trades which can be used by investors to take views on interest rates in an efficient manner, the methods used to accurately set up these trades, as well as common pitfalls and risks?providing examples from previous market stress*

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*events such as 2008 Includes exclusive access to the Interest Rate Markets Web site which includes commonly used calculations and trade construction methods Interest Rate Markets helps readers to understand the structural nature of the rates markets and to develop a framework for thinking about these markets intuitively, rather than focusing on mathematical models*

*Publisher description: This book is a reference for librarians, mathematicians, and statisticians involved in college and research level mathematics and statistics in the 21st century. Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics. Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics. These resources are grouped by material type. Publication dates range from the 1800's*



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*onwards. Hundreds of electronic resources--some online, both dynamic and static, some in fixed media, are listed among the paper resources. A majority of listed electronic resources are free. University-level mathematicians--whether focused on research or teaching--recognize the need to develop effective ways for teaching undergraduate mathematics. The Mathematics Department of the Korea Advanced Institute of Science and Technology hosted a symposium on effective teaching, featuring internationally distinguished researchers deeply interested in teaching and mathematics educators possessing established reputations for developing successful teaching techniques. This book stems from that symposium.*

*The high-level language of R is recognized as one of the most powerful and flexible statistical software environments, and is*

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*rapidly becoming the standard setting for quantitative analysis, statistics and graphics. R provides free access to unrivalled coverage and cutting-edge applications, enabling the user to apply numerous statistical methods ranging from simple regression to time series or multivariate analysis. Building on the success of the author's bestselling Statistics: An Introduction using R, The R Book is packed with worked examples, providing an all inclusive guide to R, ideal for novice and more accomplished users alike. The book assumes no background in statistics or computing and introduces the advantages of the R environment, detailing its applications in a wide range of disciplines. Provides the first comprehensive reference manual for the R language, including practical guidance and full coverage of the graphics facilities. Introduces all the statistical models covered by R, beginning with*

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*simple classical tests such as chi-square and t-test. Proceeds to examine more advance methods, from regression and analysis of variance, through to generalized linear models, generalized mixed models, time series, spatial statistics, multivariate statistics and much more. The R Book is aimed at undergraduates, postgraduates and professionals in science, engineering and medicine. It is also ideal for students and professionals in statistics, economics, geography and the social sciences.*

*An Atlas of Gynecologic Oncology*

*A First Course in Programming and Statistics*

*A Practical Guide for Developers*

*Information and Communications Technologies in School  
Mathematics*

*Rehabilitation Studies Handbook*

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## *Hauptbd*

***The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as***

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***interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn:***

- The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops***
- Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R***
- How to access R’s thousands of functions, libraries, and data sets***
- How to draw valid and useful conclusions from your data***
- How to create publication-quality graphics of your results***

***Combining detailed explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics***

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***and the depth of R's functionality. Make The Book of R your doorway into the growing world of data analysis. Practical Handbook of Curve Fitting is a reference work assembled by Arlinghaus and a set of editors with well over a century of combined experience in various disciplines and activities related to curve fitting. The book demonstrates how to analyze World data bases and graph and map the results. Default settings in software packages can produce attractive graphs of data imported into the software. Often, however, the default graph has no equation associated with it and cannot therefore be used as a tool for further analysis or projection of the data. The same software can often be used to generate curves from equations. The reader is shown directly, and***

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***in a series of steps, how to fit curves to data using Lotus 1-2-3. There are traditional unbounded curve fitting techniques-lines of least squares, exponentials, logistic curves, and Gompertz curves. There is the bounded curve fitting technique of cubic spline interpolation. Beyond these, there is a detailed application of Feigenbaum's graphical analysis from chaos theory, and there is a hint as to how fractal geometry might come into play. Curve fitting algorithms take on new life when they are actually used on real-world data. They are used in numerous worked examples drawn from electronic data bases of public domain information from the Stars data base of The World Bank and from the WRD data base of the World Resources Institute. The applications***

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***are current and reflect a state-of-the-art interest in the human dimensions of global change.***

***Thermoluminescence (TL) is a well-established technique widely used in do- metric and dating applications.***

***Although several excellent reference books exist which document both the t- oretical and experimental aspects of TL, there is a general lack of books that deal withspeci ?cnumericalandpracticalaspectsofanalyzingTLdata.***

***Manytimesthe practicaldetailsofanalyzingnumericalTLglo wcurvesandofapplyingtheoretical models are dif?cult to ?nd in the published literature. The purpose of this book is to provide a practical guide for both established researchers and for new graduate students entering the ?eld of TL and is intended to be used in conjunction with***



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***and as a practical supplement of standard textbooks in the field. Chapter 1 lays the mathematical groundwork for subsequent chapters by presenting the fundamental mathematical expressions most commonly used for analyzing experimental TL data. Chapter 2 presents comprehensive examples of TL data analysis for glow curves following first-, second-, and general-order kinetics. Detailed analysis of numerical data is presented by using a variety of methods found in the TL literature, with particular emphasis in the practical aspects and pitfalls that researchers may encounter. Special emphasis is placed on the need to use several different methods to analyze the same TL data, as well as on the necessity to analyze glow curves obtained under different experimental conditions.***

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***Unfortunately, the literature contains many published papers that claim a specific kinetic order for a TL peak in a dosimetric material, based only on a peak shape analysis. It is hoped that the detailed examples provided in Chapter 2 will encourage more comprehensive studies of TL properties of materials, based on the simultaneous use of several different methods of analysis.***

***The Second Edition combines a traditional approach with the symbolic manipulation abilities of Mathematica to explain and develop the classical theory of curves and surfaces. You will learn to reproduce and study interesting curves and surfaces - many more than are included in typical texts - using computer methods. By plotting geometric objects and studying the printed***

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***result, teachers and students can understand concepts geometrically and see the effect of changes in parameters. Modern Differential Geometry of Curves and Surfaces with Mathematica explains how to define and compute standard geometric functions, for example the curvature of curves, and presents a dialect of Mathematica for constructing new curves and surfaces from old. The book also explores how to apply techniques from analysis. Although the book makes extensive use of Mathematica, readers without access to that program can perform the calculations in the text by hand. While single- and multi-variable calculus, some linear algebra, and a few concepts of point set topology are needed to understand the theory, no computer or***

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***Mathematica skills are required to understand the concepts presented in the text. In fact, it serves as an excellent introduction to Mathematica, and includes fully documented programs written for use with Mathematica. Ideal for both classroom use and self-study, Modern Differential Geometry of Curves and Surfaces with Mathematica has been tested extensively in the classroom and used in professional short courses throughout the world.***

***Models and Applications of Chaos Theory in Modern Sciences***

***A Practical Project Management Handbook  
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**AMSTAT News**

***Guide to Information Sources in Mathematics and  
Statistics***

***Analysis and Valuation***

Written by an experienced practitioner, The Handbook of Project Management will be particularly useful for those starting a new project, wishing to acquire new skills, or training others in project management skills. It is written specifically to help project managers improve their performance using tried and tested techniques. Packed with concepts and processes, tools and presentation materials, this comprehensive handbook will assist anyone responsible for converting strategy into reality.

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The package comprises a book plus free CD-ROM containing a collection of tools, templates, and procedures which support the methodology used in the book.

This new book, by the original developer of the BACnet standards, explains how BACnet's protocols manage all basic building functions in a seamless, integrated way. BACnet is a data communication protocol for building automation and control systems, developed within ASHRAE in cooperation with ANSI and the ISO. This book explains how BACnet works with all major control systems--including those made by Honeywell, Siemens, and Johnson Controls--to manage everything from

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heating to ventilation to lighting to fire control and alarm systems. BACnet is used today throughout the world for commercial and institutional buildings with complex mechanical and electrical systems. Contractors, architects, building systems engineers, and facilities managers must all be cognizant of BACnet and its applications. With a real 'seat at the table,' you'll find it easier to understand the intent and use of each of the data sharing techniques, controller requirements, and opportunities for interoperability between different manufacturers' controllers and systems. Highlights include: \* A review of the history of BACnet and its essential features, including the object model, data links,

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network technologies, and BACnet system configurations; \* Comprehensive coverage of services including object access, file access, remote device management, and BACnet-2012's new alarm and event capabilities; \* Insight into future directions for BACnet, including wireless networking, network security, the use of IPv6, extensions for lifts and escalators, and a new set of BACnet Web Services; \* Extensive reference appendices for all objects and services; and \* Acronyms and abbreviations

A world list of books in the English language.  
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