

Building Services Engineering Spreadsheets

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Excel Modeling in Corporate Finance, Global Edition - Craig W. Holden 2015-02-02

For courses in corporate finance or financial management at the undergraduate and graduate level. Excel Modeling in Corporate Finance approaches building and estimating models with Microsoft® Excel®. Students are shown the steps involved in building models, rather than already-completed spreadsheets.

Energy Management and Operating Costs in Buildings - Keith Moss 2013-06-17

Managing the consumption and conservation of energy in buildings must now become the concern of both building managers and occupants. The provision of lighting, hot water supply, communications, cooking, space heating and cooling accounts for 45 per cent of UK energy consumption. Energy Management and Operating Costs in Buildings introduces the reader to the principles of managing and conserving energy consumption in buildings people use for work or leisure. Energy consumption is considered for the provision of space heating, hot water, supply ventilation and air conditioning. The author introduces the use of standard performance indicators and energy consumption yardsticks, and discusses the use and application of degree days.

The Art of Modeling with Spreadsheets - Powell 2004

CD ROM contains: "all the spreadsheets referred to in the text, as well as three software tools (Premium Solver, Crystal Ball, Sensitivity Toolkit)."

Building Services Engineering Spreadsheets - David Chadderton 2002-09-11

Building Services Engineering Spreadsheets is a versatile, user friendly tool for design calculations. Spreadsheet application software is readily understandable since each formula is readable in the location where it is used. Each step in the development of these engineering solutions is fully explained. The book provides study material in building services engineering and will be valuable both to the student and to the practising engineer. It deals with spreadsheet use, thermal transmittance, building heat loss and heat gain, combustion analysis, fan selection, air duct design, water pipe sizing, lumen lighting design, electrical cable sizing, at a suitable level for practical design work. Commercially available software, while very powerful and comprehensive, does not allow the user any facility to look into the coded instructions. The user has to rely upon the supplier for explanation, updates and corrections. The advantage that the spreadsheet applications provided with the book have over purchased dedicated software, is that the user can inspect everything that the program undertakes. Parts of the worksheets can be copied to other cells in order to expand the size of each worksheet. Experienced spreadsheet operators can edit the cells to change the way in which data and calculations are used, and with guidance from the explanatory, build their own applications.

Building Services Handbook - Fred Hall 2012-05-23

The Building Services Handbook summarises concisely, in diagrams and brief explanations, all elements of building services. Practice, techniques and procedures are clearly defined with supplementary references to regulations and relevant standards. This is an essential text for all construction/building services students up to undergraduate level, and is also a valuable reference text for building service professionals. This new book is based on Fred Hall's 'Essential Building Services and Equipment 2ed' and has been thoroughly updated throughout. It is a companion volume to the highly popular textbook 'Building Construction Handbook' by Chudley and Greeno, which is now in its fourth edition.

Building Services Engineering Spreadsheets - David Chadderton 2017-06-30

Building Services Engineering Spreadsheets is a versatile, user friendly tool for design calculations. Spreadsheet application software is readily understandable since each formula is readable in the location where it is used. Each step in the development of these engineering solutions is fully explained. The book provides study material in building services

engineering and will be valuable both to the student and to the practising engineer. It deals with spreadsheet use, thermal transmittance, building heat loss and heat gain, combustion analysis, fan selection, air duct design, water pipe sizing, lumen lighting design, electrical cable sizing, at a suitable level for practical design work. Commercially available software, while very powerful and comprehensive, does not allow the user any facility to look into the coded instructions. The user has to rely upon the supplier for explanation, updates and corrections. The advantage that the spreadsheet applications provided with the book have over purchased dedicated software, is that the user can inspect everything that the program undertakes. Parts of the worksheets can be copied to other cells in order to expand the size of each worksheet. Experienced spreadsheet operators can edit the cells to change the way in which data and calculations are used, and with guidance from the explanatory, build their own applications.

Industrial Process Plant Construction Estimating and Man-Hour Analysis - Kenneth Storm 2019-05-22

Industrial Process Plant Construction Estimating and Man-Hour Analysis focuses on industrial process plants and enables the estimator to apply statistical applications, estimate data tables, and estimate sheets to use methods for collecting, organizing, summarizing, presenting, and analyzing historical man-hour data. The book begins with an introduction devoted to labor, productivity measurement, collection of historical data, verification of data, estimating methods, and factors affecting construction labor productivity and impacts of data. It goes on to explore construction statistics and mathematical spreadsheets, followed by detailed scopes of work ranging from coal-fired power plants to oil refineries and solar plants, among others. Man-hour schedules based on historical data collected from past installations in industrial process plants are also included as well as a detailed glossary, Excel and mathematical formulas, area and volume formulas, metric/standard conversions, and boiler man-hour tables. Industrial Process Plant Construction Estimating and Man-Hour Analysis aids industrial project managers, estimators, and engineers with the level of detail and practical utility for today's industrial operations and is an ideal resource for those involved in engineering, technology, or construction estimation. Identify quantity differences with the comparison method and eliminate impacts between proposed and previously installed equipment Understand how to implement statistical and estimating methods, scopes of work, man-hour tables and estimate sheets to produce direct craft man-hour estimates, RFPs, and field change orders Set up and utilize Excel templates to automate statistical functions that will perform mathematical applications key to process plant construction

Breakthrough Improvement with QI Macros and Excel: Finding the Invisible Low-Hanging Fruit - Jay Arthur 2014-03-15

Maximize speed, quality, productivity, and profits with QI Macros for Excel Breakthrough Improvement with QI Macros and Excel: Finding the Invisible Low-Hanging Fruit reveals proven techniques for identifying and analyzing data that will lead to immediate results. This practical guide focuses on using Excel, one of the most widely used software packages, to drive improvement--no need to rely on expensive training in a new methodology. Free video training and a 90-day trial version of QI Macros for Excel can be found at www.qimacros.com/breakthrough. Links to YouTube videos for each chapter of the book can be found at www.breakthrough-improvement-excel.com The combination of the book, software, and video training will provide you with the tools you need to eliminate the three silent killers of productivity: delay, defects, and deviation. You'll make and sustain breakthrough improvements that will catapult your business ahead of the competition. LEARN HOW TO: Design well-organized spreadsheets for breakthrough improvement Use Excel formulas to prepare data for charting or analysis Reduce data to a manageable size using Excel's built-in functions Master the Magnificent Seven Tools of Breakthrough Improvement--value-stream maps and

spaghetti diagrams, PivotTables, control charts, Pareto charts, histograms, fishbone diagrams, and matrix diagrams Follow the money to identify and plug leaks in your cash flow Identify and eliminate defects, mistakes, and errors in your processes Transform your data into visually stunning shortcuts to decisions, actions, productivity, and profits Consolidate data into well-designed Excel charts to quickly communicate performance trends Maximize QI Macros for Excel power tools to analyze and graph data Find invisible low-hanging fruit using PivotTables Sustain breakthrough improvement with control charts, histograms, and dashboards Use statistical tools, including hypothesis testing, analysis of variance, and regression analysis

Heat and Mass Transfer in Building Services Design - Keith Moss 2002-09-11

Building design is increasingly geared towards low energy consumption. Understanding the fundamentals of heat transfer and the behaviour of air and water movements is more important than ever before. *Heat and Mass Transfer in Building Services Design* provides an essential underpinning knowledge for the technology subjects of space heating, water services, ventilation and air conditioning. This new text: *provides core understanding of heat transfer and fluid flow from a building services perspective *complements a range of courses in building services engineering *underpins and extends the themes of the author's previous books: *Heating and Water Services Design in Buildings*; *Energy Management and Operational Costs in Buildings* *Heat and Mass Transfer in Building Services Design* combines theory with practical application for building services professional and students. It will also be beneficial to technicians and undergraduate students on courses in construction and mechanical engineering.

Escape From Excel Hell - Loren Abdulezer 2006-06-06

Written especially for advanced beginners and intermediate users, this book offers quick fixes for anyone bedeviled by faulty formulas, failed formatting, printer purgatory, and other perplexing Excel problems Offers three types of fixes: Escape in Under 30 Seconds, Escape in Under Two Minutes, and More Elaborate Escapes-over 400 solutions in all Topics covered include formula fixes, formatting fixes, data and layout fixes for Excel charts, PivotTable fixes, managing complexity in very large spreadsheets, fixing broken procedure functions, and more Includes preventive measures and best practices that teach users how to avoid problems in the future Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel, and MATLAB - Michael B. Cutlip 2008

Problem Solving in Chemical and Biochemical Engineering with POLYMATH", Excel, and MATLAB, Second Edition, is a valuable resource and companion that integrates the use of numerical problem solving in the three most widely used software packages: POLYMATH, Microsoft Excel, and MATLAB. Recently developed POLYMATH capabilities allow the automatic creation of Excel spreadsheets and the generation of MATLAB code for problem solutions. Students and professional engineers will appreciate the ease with which problems can be entered into POLYMATH and then solved independently in all three software packages, while taking full advantage of the unique capabilities within each package. The book includes more than 170 problems requiring numerical solutions. This greatly expanded and revised second edition includes new chapters on getting started with and using Excel and MATLAB. It also places special emphasis on biochemical engineering with a major chapter on the subject and with the integration of biochemical problems throughout the book. General Topics and Subject Areas, Organized by Chapter Introduction to Problem Solving with Mathematical Software Packages Basic Principles and Calculations Regression and Correlation of Data Introduction to Problem Solving with Excel Introduction to Problem Solving with MATLAB Advanced Problem-Solving Techniques Thermodynamics Fluid Mechanics Heat Transfer Mass Transfer Chemical Reaction Engineering Phase Equilibrium and Distillation Process Dynamics and Control Biochemical Engineering Practical Aspects of Problem-Solving Capabilities Simultaneous Linear Equations Simultaneous Nonlinear Equations Linear, Multiple Linear, and Nonlinear Regressions with Statistical Analyses Partial Differential Equations (Using the Numerical Method of Lines) Curve Fitting by Polynomials with Statistical Analysis Simultaneous Ordinary Differential Equations (Including Problems Involving Stiff Systems, Differential-Algebraic Equations, and Parameter Estimation in Systems of Ordinary Differential Equations) The Book's Web Site

(<http://www.problemsolvingbook.com>) Provides solved and partially solved problem files for all three software packages, plus additional

materials Describes discounted purchase options for educational version of POLYMATH available to book purchasers Includes detailed, selected problem solutions in Maple", Mathcad, and Mathematica"

Excel 2013: The Missing Manual - Matthew MacDonald 2013-04-18

The world's most popular spreadsheet program is now more powerful than ever, but it's also more complex. That's 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 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 British National Bibliography - Arthur James Wells 2006

Building Services Engineering - David Chadderton 2004-08-02

This thoroughly up-dated fourth edition of David Chadderton's text provides study materials in the fields of construction, architectural, surveying and energy engineering.

Books in Print Supplement - 2002

Construction Estimating Using Excel - Steven Peterson 2017-01-11

For beginning to intermediate courses in construction estimating in two- and four-year construction management programs. A step-by-step, hands-on introduction to commercial and residential estimating *Construction Estimating with Excel, 3/e*, introduces readers to the fundamental principles of estimating using drawing sets, real-world exercises, and examples. The book moves step-by-step through the estimating process, discussing the art of estimating, the quantity takeoff, how to put costs to the estimate, and how to finalize the bid. As students progress through the text they are shown how Microsoft Excel can be used to improve the estimating process. Because it introduces spreadsheets as a way of increasing estimating productivity and accuracy, the book can help both beginning and experienced estimators improve their skills. The Third Edition gives students a broader understanding of construction estimating with a new chapter discussing the role that estimating plays in different project delivery methods and in the design process and how to use data from RSMean. To bring the book up to date, the material and equipment costs and labor rates have been updated to reflect current costs, and the discussion of Excel (including the figures) is based on Excel 2016. Additionally, content throughout the book has been updated to align to ACCE and ABET student learning outcomes. Student resources are available on the companion website www.pearsonhighered.com/careersresources/.

Ventilation and Airflow in Buildings - Claude-Alain Roulet 2012-05-16

Energy efficiency in buildings requires, among other things, that ventilation be appropriately dimensioned: too much ventilation wastes energy, and insufficient ventilation leads to poor indoor air quality and low comfort. Studies have shown that ventilation systems seldom function according to their commissioned design. They have also shown that airflow measurement results are essential in improving a ventilation system. This key handbook explains why ventilation in buildings should be measured and describes how to measure it, giving applied examples for each measurement method. The book will help building physicists and ventilation engineers to properly commission ventilation systems and appropriately diagnose ventilation problems throughout the life of a building. Drawing on over 20 years of experience and the results of recent international research projects, this is the definitive guide to diagnosing airflow patterns within buildings.

Statistics and Probability for Engineering Applications - William DeCoursey 2003-05-14

Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and

techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory

Building Services Engineering - David V. Chadderton 2000

This textbook takes into account recent changes to codes and technology and includes chapters on acoustic design and HVAC control strategy. The design of building services and the many calculations involved are fully explained.

Management Science - Stephen G. Powell 2013-10-07

Management Science provides students and business analysts with the technical knowledge and skill needed to develop real expertise in business modeling. The authors cover spreadsheet engineering, management science, and the modeling craft. The text is designed to improve modeling efficiency and modeling effectiveness by focusing on the most important tasks and tools.

Chemical Engineering Design - Gavin Towler 2012-01-25

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources:

1170 lecture slides plus fully worked solutions manual available to adopting instructors

HVAC Control Systems - Chris P. Underwood 2002-09-11

This important new book bridges the gap between works on classical control and process control, and those dealing with HVAC control at a more elementary level, which generally adopt a qualitative and descriptive control. Both advanced level students and specialist practitioners will welcome the in-depth analytical treatment of the subject presented in this volume. Of particular significance are the current developments in adaptive control, robust control, artificial neural networks and fuzzy logic systems, all of which are given a thorough analytical treatment in the book. First book to provide an analytical treatment of subject Covers all new developments in HVAC control systems Looks at systems both in the UK and abroad

The Definitive Guide to MySQL 5 - Michael Kofler 2006-11-22

* MySQL 5, due to be released in summer 2005, is slated to be the most significant release in the product's history. The Definitive Guide to MySQL 5, Third Edition is the first book to offer in-depth instruction on the new features. * This book shows readers how to connect to MySQL via all of the major APIs, including PHP, Perl, Java, JSP, and C#. * Novice and intermediate database administrators are introduced to both MySQL's key features, and crucial database management concepts by way of real-world examples such as discussion forums, online polls, and other data administration projects.

Northeast Regional Agricultural Engineering Service Publication Sales Prediction Project - Tommy Cheung 1992

Building Services Journal - 2006

Business Analytics: The Art of Modeling With Spreadsheets, 5th Edition - Powell 2016-11-16

Now in its fifth edition, Powell and Baker's Business Analytics: The Art of Modeling with Spreadsheets provides students and business analysts with the technical knowledge and skill needed to develop real expertise in business modeling. In this book, the authors cover spreadsheet engineering, management science, and the modeling craft. The brevity & accessibility of this title offers opportunities to integrate other materials -such as cases -into the course. It can be used in any number of courses or departments where modeling is a key skill.

Excel for Scientists and Engineers - E. Joseph Billo 2007-04-06

Learn to fully harness the power of Microsoft Excel(r) to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's(r) capabilities to execute the calculations needed to solve a variety of chemical, biochemical, physical, engineering, biological, and medicinal problems. The text begins with two chapters that introduce you to Excel's Visual Basic for Applications (VBA) programming language, which allows you to expand Excel's(r) capabilities, although you can still use the text without learning VBA. Following the author's step-by-step instructions, here are just a few of the calculations you learn to perform: * Use worksheet functions to work with matrices * Find roots of equations and solve systems of simultaneous equations * Solve ordinary differential equations and partial differential equations * Perform linear and non-linear regression * Use random numbers and the Monte Carlo method This text is loaded with examples ranging from very basic to highly sophisticated solutions. More than 100 end-of-chapter problems help you test and put your knowledge to practice solving real-world problems. Answers and explanatory notes for most of the problems are provided in an appendix. The CD-ROM that accompanies this text provides several useful features: * All the spreadsheets, charts, and VBA code needed to perform the examples from the text * Solutions to most of the end-of-chapter problems * An add-in workbook with more than twenty custom functions This text does not require any background in programming, so it is suitable for both undergraduate and graduate courses. Moreover, practitioners in science and engineering will find that this guide saves hours of time by enabling them to perform most of their calculations with one familiar spreadsheet package.

Beginning Excel, First Edition - Barbara Lave 2020

This is the first edition of a textbook written for a community college introductory course in spreadsheets utilizing Microsoft Excel; second edition available: <https://openoregon.pressbooks.pub/beginningexcel19/>. While the figures shown utilize Excel 2016, the textbook was written to be applicable to other versions of Excel as well. The book introduces new users to the basics of spreadsheets and is appropriate for students in any major who have not used Excel before.

Beyond Spreadsheets with R - Jonathan Carroll 2017-06-28

Summary Beyond Spreadsheets with R shows you how to take raw data and transform it for use in computations, tables, graphs, and more. You'll build on simple programming techniques like loops and conditionals to create your own custom functions. You'll come away with a toolkit of strategies for analyzing and visualizing data of all sorts using R and RStudio. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Spreadsheets are powerful tools for many tasks, but if you need to interpret, interrogate, and present data, they can feel like the wrong tools for the task. That's when R programming is the way to go. The R programming language provides a comfortable environment to properly handle all types of data. And within the open source RStudio development suite, you have at your fingertips easy-to-use ways to simplify complex manipulations and create reproducible processes for analysis and reporting. About the Book With Beyond Spreadsheets with R you'll learn how to go from raw data to meaningful insights using R and RStudio. Each carefully crafted chapter covers a unique way to wrangle data, from understanding individual values to interacting with complex collections of data, including data you scrape from the web. You'll build on simple programming techniques like loops and conditionals to create your own custom functions. You'll come away with a toolkit of strategies for analyzing and visualizing data of all sorts. What's inside How to start programming with R and RStudio Understanding and implementing important R structures and operators Installing and working with R packages Tidying, refining, and plotting your data About the Reader If you're comfortable writing formulas in Excel, you're ready for this book. About the Author Dr Jonathan Carroll is a data science consultant providing R programming services. He holds a PhD in theoretical physics. Table of Contents Introducing data and the R language Getting to know R data types Making new data values Understanding the tools you'll use: Functions Combining data values Selecting data values Doing things with lots of data Doing things conditionally: Control structures Visualizing data: Plotting Doing more with your data with extensions **Optimization Modeling with Spreadsheets** - Kenneth R. Baker 2012-01-10

Reflects the latest applied research and features state-of-the-art software for building and solving spreadsheet optimization models Thoroughly updated to reflect the latest topical and technical advances in the field, Optimization Modeling with Spreadsheets, Second Edition continues to focus on solving real-world optimization problems through the creation of mathematical models and the use of spreadsheets to represent and analyze those models. Developed and extensively classroom-tested by the author, the book features a systematic approach that equips readers with the skills to apply optimization tools effectively without the need to rely on specialized algorithms. This new edition uses the powerful software package Risk Solver Platform (RSP) for optimization, including its Evolutionary Solver, which employs many recently developed ideas for heuristic programming. The author provides expanded coverage of integer programming and discusses linear and nonlinear programming using a systematic approach that emphasizes the use of spreadsheet-based optimization tools. The Second Edition also features: Classifications for the various problem types, providing the reader with a broad framework for building and recognizing optimization models Network models that allow for a more general form of mass balance A systematic introduction to Data Envelopment Analysis (DEA) The identification of qualitative patterns in order to meaningfully interpret linear programming solutions An introduction to stochastic programming and the use of RSP to solve problems of this type Additional examples, exercises, and cases have been included throughout, allowing readers to test their comprehension of the material. In addition, a related website features Microsoft Office® Excel files to accompany the figures and data sets in the book. With its accessible and comprehensive presentation, Optimization Modeling with Spreadsheets, Second Edition is an excellent book for courses on deterministic models, optimization, and spreadsheet modeling at the upper-undergraduate and graduate levels. The book can also serve as a reference for researchers, practitioners, and consultants working in business, engineering, operations research, and management science.

Reference Data - Chartered Institution of Building Services Engineers 2001

Guide C: Reference Data contains the basic physical data and calculations which form the crucial part of building services engineer background reference material. Expanded and updated throughout, the book contains sections on the properties of humid air, water and steam,

on heat transfer, the flow of fluids in pipes and ducts, and fuels and combustion, ending with a comprehensive section on units, mathematical and miscellaneous data. There are extensive and easy-to-follow tables and graphs. ·Essential reference tool for all professional building services engineers ·Easy to follow tables and graphs make the data accessible for all professionals ·Provides you with all the necessary data to make informed decisions

Heating and Water Services Design in Buildings - Keith Moss 2013-05-13

This book provides a thorough and practical coverage of design procedures, with numerous examples and case studies. The author has worked with open learning candidates of all ages as well with college students and university undergraduates.

An Introduction to Excel for Civil Engineers - Gunthar Pangaribuan 2016-08-16

It's a Excel basics book that every civil engineer should have read by now. It addresses skills that may not be covered in most Excel for civil engineering texts, such as step by step guides to create an application program and how to convert the steps into VBA code, how to perform matrix operations (multiplication and inversion) using Excel-VBA, macro for creating an engineering chart, a brief and simple guide to become an instant Excel-VBA programmer, and more... Also to be presented the depiction in AutoCAD program. Yes! AutoCAD is chosen because one of its advantages that relies on high drawing accuracy. You will learn how to create a simple AutoCAD script file using Excel formulas and Excel-VBA. It is expected that you will be able to create simple Cartesian graph in AutoCAD, even you are an AutoCAD first time user! With the ease of working with Excel, coupled with benefit of the given examples in this book, it is expected to increase the interest of the reader to create new original application programs. Thus, each model or even a specific calculation will be an exciting challenge for a programming job is already enjoyable. Happy Excel programming!

Spreadsheet Check and Control - Patrick O'Beirne 2005-01-01

What other reviewers say about ?Spreadsheet Check and Control??It is excellent. I am embarrassed when I think of the shortcuts I generally take with spreadsheets and I have often paid the price. I think it will become, and it should be, required reading for all young trainee accountants.? Ciaran Walsh, senior finance specialist, Irish Management Institute.?It's super. I kept saying to myself, ?Wow, I didn't know you could do that.? A great job.? Ray Panko, the most cited authority on spreadsheet error, University of Hawai?I.?Spreadsheet Check and Control does what no other book before has attempted to do; provide standards for designing spreadsheets that lend themselves to a logical review by management and internal auditors. Following this author?s guide and insight can help your organization minimize spreadsheet errors and facilitate audit review to prevent and detect those errors.? Jim Kaplan, AuditNet.org.?I thought I knew a lot about Excel, but in the course of teaching me to be Excel-careful, O'Beirne taught me some new tricks and methods that both helped me build better financial models and track down errors.? Simon Benninga, author of Financial Modeling, MIT Press 2000 and Principles of Finance with Excel, Oxford University Press, 2005.'Save red faces all round by buying, absorbing and passing-on this book, especially if you personally develop spreadsheets or if your organization is subject to Sarbanes Oxley and related regulations. Avoiding even a trivial spreadsheet mistake may well pay for the book. Avoiding a large one may save your career.' Dr. Gary Hinson, independent consultant in information security and computer auditing, editor of security awareness website NoticeBored.com.'Probably one of the most important spreadsheet books ever written. Your customers and boss will be delighted with the increased usability, accuracy and reliability his techniques encourage. Be aware that the pages are packed with useful and usable advice, so the 200 pages is probably equivalent to 500 pages in many other books.' Simon Murphy, Codematic.net, author of XLAnalyst.'An essential guide for serious spreadsheet users. This book goes a long way to help spreadsheet users adopt methods that will reduce errors and thereby improve the quality of the information vital to the success of all organisations.' P M Cleary, University of Wales Institute Cardiff, Wales'This is an excellent, easy to follow book containing the key practices that will arm the novice and self taught spreadsheet user so they can create well designed, reliable and error free spreadsheets.' CPA Ireland magazine review'Minimizing or eliminating spreadsheet errors is Patrick O'Beirne's focus in this visual 200-page book, which is geared toward software testers, business managers, or auditors sleuthing for fraud'. CA Magazine (Canada) review Summary of contents

Forthcoming Books - Rose Arny 1999-04

Air Conditioning - David V. Chadderton 2012-08-06

This expanded edition of David Chadderton's Air Conditioning is a textbook for undergraduate courses in building services and environmental engineering, and for BTEC continuing education diploma, higher national diploma and certificate courses in building services engineering. It will also be of considerable help to students on national certificate and diploma programmes. The book includes a new chapter on application of fans to airduct systems.

The History of Mathematical Tables - Martin Campbell-Kelly 2003-10-02

The oldest known mathematical table was found in the ancient Sumerian city of Shuruppag in southern Iraq. Since then, tables have been an important feature of mathematical activity; table making and printed tabular matter are important precursors to modern computing and information processing. This book contains a series of articles summarising the technical, institutional and intellectual history of mathematical tables from earliest times until the late twentieth century. It covers mathematical tables (the most important computing aid for several hundred years until the 1960s), data tables (eg. Census tables), professional tables (eg. insurance tables), and spreadsheets - the most recent tabular innovation. The book is presented in a scholarly yet accessible way, making appropriate use of text boxes and illustrations. Each chapter has a frontispiece featuring a table along with a small illustration of the source where the table was first displayed. Most chapters have sidebars telling a short "story" or history relating to the chapter. The aim of this edited volume is to capture the history of tables through eleven chapters written by subject specialists. The contributors

describe the various information processing techniques and artefacts whose unifying concept is "the mathematical table".

Engineering Sign Structures - Benjamin Jones 1998

DESIGN FRAMEWORK FOR BUILDING SERVICES (BG 6/2018)5TH EDITION. - DAVID. RONCERAY CHURCHER (MARTIN. SANDS, JOHN.) 2018

Building Construction Estimating - Stephen D. Schuette 1994

Building Construction Estimating furnishes readers with specific details on how a general building contractor derives the cost of a project before it begins, and how the estimate fits into the total construction process. The book provides coverage of such areas as determining labor productivity and wages, selecting equipment and assigning productivity rates and costs, acquiring specialty contractor prices, and assigning overhead costs and profit. The material is presented from the point of view of a general contractor working on a competitively bid stipulated-sum (lump-sum) contract. However, other contract methods and the effects they have on the estimating process are also discussed. Furthermore, the principles of estimating for the specialty trades are discussed from the reference of a general building contractor, and how the subcontractor's bid will affect the total project cost is presented. Of special note is the book's introduction and utilization of computers in the estimating process - enabling readers to utilize new technology in an effective and efficient manner. The book is organized in a way that first teaches the reader to perform many of the estimating activities manually, then guides them in developing a computer spreadsheet. The use of spreadsheets empowers the reader to go beyond the manual calculations and develop new and more proficient solutions to estimating problems.