

## Williss Elements Of Quantity Surveying

Willis's Elements of Quantity Surveying John Wiley & Sons

Diet and Health examines the many complex issues concerning diet and its role in increasing or decreasing the risk of chronic disease. It proposes dietary recommendations for reducing the risk of the major diseases and causes of death today: atherosclerotic cardiovascular diseases (including heart attack and stroke), cancer, high blood pressure, obesity, osteoporosis, diabetes mellitus, liver disease, and dental caries.

A long established text that aims to meet the needs of students studying building measurement in the early years of quantity surveying and building degree courses. It contains a careful selection of 28 worked examples embracing all the principal building elements and including alternative constructional methods to illustrate a range of approaches. Willis's Elements of Quantity Surveying has become a standard text in the teaching of building measurement – a core part of the curriculum for quantity surveyors. Particularly in the latter editions it has eclipsed the other books on building measurement, partly because of the heritage, but mostly because of the logical approach and copious use of examples to guide the student. The new 11th edition has been fully updated to recognise the introduction of the New Rules of Measurement (NRM) by the Royal Institution of Chartered Surveyors (RICS), which reflect the way the modern QS works and provide a standard set of measurement rules that are understandable by all those involved in a construction project. Key features: First published in 1935, has been used by many generations of quantity surveyors and lecturers New edition fully updated to include the RICS new rules of measurement (NRM) Many examples updated to reflect current QS practice Revisers have extensive experience of teaching the subject through College of Estate Management courses

The Care of Books

New Aspects of Quantity Surveying Practice

A Practical Introduction

Diet and Health

Willis's Elements of Quantity Surveying

"Experiences of Health Workers in the COVID-19 Pandemic shares the stories of frontline health workers - told in their own words - during the second wave of COVID-19 in Australia. The book records the complex emotions health workers experienced as the pandemic unfolded and the challenges they faced in caring for themselves, their families, and their patients. The book shares their insights on what we can learn from the pandemic to strengthen our health system and prepare for future crises. The book draws on over 9,000 responses to a survey examining the psychological, occupational, and social impact of COVID-19 on frontline health workers. Survey participants came from all areas of the health sector, from intensive care doctors to hospital cleaners to aged care nurses, and from large metropolitan hospitals to rural primary care practices. The authors organise these free text responses thematically, creating a shared narrative of health workers experiences. Each chapter is prefaced by a commentary providing additional context and exploring the significance of the themes that emerged from the survey. This book offers a unique historical record of the experiences of thousands of healthcare workers at the height of the second wave of the pandemic and will be of great interest to anyone interested in healthcare policy and the psychological, organisational, and social challenges of the COVID-19 pandemic"--

Is there a way to get students to love math? Dr. Judy Willis responds with an emphatic yes in this informative guide to getting better results in math class. Tapping into abundant research on how the brain works, Willis presents a practical approach for how we can improve academic results by demonstrating certain behaviors and teaching students in a way that minimizes negativity. With a straightforward and accessible style, Willis shares the knowledge and experience she has gained through her dual careers as a math teacher and a neurologist. In addition to learning basic brain anatomy and function, readers will learn how to \* Improve deep-seated negative attitudes toward math. \* Plan lessons with the goal of "achievable challenge" in mind. \* Reduce mistake anxiety with techniques such as errorless math and estimation. \* Teach to different individual learning strengths and skill levels. \* Spark motivation. \* Relate math to students' personal interests and goals. \* Support students in setting short-term and long-term goals. \* Convince students that they can change their intelligence. With dozens of strategies teachers can use right now, Learning to Love Math puts the power of research directly into the hands of educators. A Brain Owner's Manual, which dives deeper into the structure and function of the brain, is also included—providing a clear explanation of how memories are formed and how skills are learned. With informed teachers guiding them, students will discover that they can build a better brain . . . and learn to love math!

Outlines all the practical skills, contractual and management techniques needed by a student studying quantity surveying.

"The Care of Books" by John Willis Clark. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten?or yet undiscovered gems?of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

New Rules of Measurement

In Their Own Words

Academia and Children's Literature

The Quantity Surveyor's Bible

The Construction Chart Book presents the most complete data available on all facets of the U.S. construction industry: economic, demographic, employment/income, education/training, and safety and health issues. The book presents this information in a series of 50 topics, each with a description of the subject matter and corresponding charts and graphs. The contents of The Construction Chart Book are relevant to owners, contractors, unions, workers, and other organizations affiliated with the construction industry, such as health providers and workers compensation insurance companies, as well as researchers, economists, trainers, safety and health professionals, and industry observers.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Elementary Surveying, Fourteenth Edition, is ideal for Surveying courses offered in Civil Engineering departments and is a useful reference for civil engineers. This highly readable, best-selling text presents basic concepts and practical material in each of the areas fundamental to modern surveying (geomatics) practice. Its depth and breadth are ideal for self-study. Elementary Surveying, Fourteenth Edition, is updated throughout to reflect the latest advances and technology. Teaching and Learning Experience This program will provide a better teaching and learning experience for you and your students. It will help: Emphasize the Theory of Errors in Surveying Work: Common errors and mistakes are listed to remind students to exercise caution in their work. Use Strong Pedagogy Tools to Teach: Numerous worked example problems, figures, illustrations, and end-of-chapter problems help students apply concepts. Reflect the Latest Advances in Technology: To keep your course current and relevant, this edition covers the latest advancements in surveying technology.

Measurement of buildings is the core skill of the quantity surveyor. It underpins the procurement, management, delivery and subsequent commissioning of a completed building, and must now be completed using New Rules of Measurement 2 (NRM 2). In this much-needed new measurement textbook, the measurement of the most common building elements is described using NRM2. Extensive worked examples including fully up to date hand-drawn diagrams and supporting take-off lists ensure that the reader develops a confidence in their ability to measure using NRM2 in practice. A practical step-by-step approach is used to explain and interpret the detail of the specific Work Sections of NRM2, covering a broad range of different trades, including mechanical and electrical systems; external works; groundwork; masonry; joinery; and internal finishes. Presuming no prior knowledge of measurement or NRM2, and fully up to date with current practice, including consideration of Building Information Modelling, this is the ideal text for students of measurement at HND or BSc level, as well as practitioners needing a crash course in how to apply NRM2.

The measurement of building elements is a core subject for quantity surveying students. Responding to the recently published second volume of the New Rules of Measurement (NRM2) by the Royal Institution of Chartered Surveyors, the 12th edition of Willis's Elements of Quantity Surveying explains, from first principles and to NRM2 standards, the measurement process for all the key building elements. This edition begins with an overview of the need for measurement and the differing rules governing measurement at different stages of the design or project cycle. As in previous editions the focus remains the detailed measurement of building elements, but the text has been fully revised in line with the NRM2 rules. A range of new and revised examples illustrating the use of NRM2 rules are a key feature of the book, which concludes with guidance on how to use the data collected during the measurement process to create the tender documents. In the 12th edition the hallmarks of previous editions – clarity and practicality – have been maintained while ensuring the book is fully up to date, providing the student of quantity surveying with a first class introduction to the measurement of building elements.

Learning to Love Math

Picture-Book Professors

Building Measurement

Experiences of Health Workers in the COVID-19 Pandemic

Quantity Surveyor's Pocket Book

This book gives a systematic overview of the fundamental theories, frameworks and methods for measurement and evaluation applying to geodesy, though the contribution of geodetic spatial techniques for positioning and for establishing the gravitational field receives particular emphasis. These methods have led to a change in the setting up of geodetic basic networks that is also of importance in practical terms; for interdisciplinary geodynamics research geodesy can likewise make major contributions with their assistance. The current status of geodesy is illustrated by numerous examples from survey, evaluation and analysis; an extensive literature list makes further study all the easier. The book conveys an extensive overview of the profound changes that geodesy has undergone in the past twenty years. This handbook covers all the practices and procedures the quantity surveyor working in a contractor's office needs to know - from budgets and forecasts to cost-value comparisons and partnering. By giving a thorough account of the commercial aspects of the work of the contractor's QS, the book offers a useful insight into their day-to-day work, with plenty of sample documents, worked examples and extracts from the standard contracts. This is a practical manual but it also helps develop an understanding of the theory underpinning current practice. As the QS role becomes more complex, commercial managers wanting to maximise profitability will find the sound advice given here invaluable as it: ? demonstrates tried-and-tested best practice through practical examples ? provides a good grounding in financial management and cost analysis ? describes the need for benchmarking, the benefits of setting targets and the use of key performance indicators (KPI's) as a means of increasing project and company performance ? highlights the benefits of teamworking.

In this fourth edition of New Aspects of Quantity Surveying Practice, renowned quantity surveying author Duncan Cartlidge reviews the history of the quantity surveyor, examines and reflects on the state of current practice with a concentration on new and innovative practice, and attempts to predict the future direction of quantity surveying practice in the UK and worldwide. The book champions the adaptability and flexibility of the quantity surveyor, whilst covering the hot topics which have emerged since the previous edition's publication, including: the RICS 'Futures' publication; Building Information Modelling (BIM); mergers and acquisitions; a more informed and critical evaluation of the NRM; greater discussion of ethics to reflect on the renewed industry interest; and a new chapter on Dispute Resolution. As these issues create waves throughout the industry whilst it continues its global growth in emerging markets, such reflections on QS practice are now more important than ever. The book is essential reading for all Quantity Surveying students, teachers and professionals. It is particularly suited to undergraduate professional skills courses and non-cognate postgraduate students looking for an up to date understanding of the industry and the role.

The third edition of the Quantity Surveyor's Pocket Book has been updated in line with NRM1, NRM2

and NRM3, and remains a must-have guide for students and qualified practitioners. Its focused coverage of the data, techniques and skills essential to the quantity surveying role makes it an invaluable companion for everything from initial cost advice to the final account stage. Key features and updates included in this new edition: an up-to-date analysis of NRM1, 2 and 3; measurement and estimating examples in NRM2 format; changes in procurement practice; changes in professional development, guidance notes and schemes of work; the increased use of NEC3 form of contract; the impact of BIM. This text includes recommended formats for cost plans, developer's budgets, financial reports, financial statements and final accounts. This is the ideal concise reference for quantity surveyors, project and commercial managers, and students of any of the above.

Construction Quantity Surveying

Cost Management of Construction Projects

Technical Writing For Dummies

Geodesy

Financial Management in Construction Contracting

**Historically employed to estimate and measure the likely material requirements for any building project, the role of the modern quantity surveyor is diverse, with a wide range of employers and geographical locations to match. Change continues to be a feature in quantity surveying practice, with the New Rules of Measurement, the RICS Black Book and Building Information Modelling (BIM) all adding to the already dynamic environment in which the Quantity Surveyor operates. This new edition of Practice and Procedure for the Quantity Surveyor reflects that dynamic environment, addressing changing practices and procedures in the profession, whilst focussing on the core skills which are essential to success. The 13th edition of this classic text, originally written by three generations of the Willis family (all quantity surveyors) continues to provide a thorough introduction to the work of the quantity surveyor in private practice, in public service and in contracting organisations.**

**The RICS New Rules of Measurement mean that the construction industry now has a way of allowing a more consistent approach to the measurement and estimating of buildings from the start of a project, right through until the end, and beyond. Estimating and cost planning using the New Rules of Measurement offers comprehensive guidance on all the technical competencies concerned with estimating throughout the precontract stages. It provides a full commentary to the NRM, with detailed and comprehensive examples of how to measure estimates and cost plans in accordance with this new prescriptive approach. For both students and practitioners, the acquisition of technical competencies is by practice so this book offers step-by-step worked examples to follow as well as an exercise on each topic. Key Features • helps dispel anxieties about using a new method in an important area of fee generation • based on the author's successful Roadshows, organised by the RICS to promote the NRM • companion websites provide support for learning:**

**<http://ostrowskiquantities.com/>  
<http://www.wiley.com/go/ostrowski/estimating>**  
Throughout its many editions, *The Architect in Practice* has remained a leading textbook used in the education of architects. While the content of the book has developed, the message and philosophy has remained constant: to provide students of architecture and young practitioners with a readable guide to the profession, outlining an architect's duties to their client and contractor, the key aspects of running a building contract, and the essentials of management, finance and drawing office procedure. The eleventh edition follows in that tradition. The text has been brought up to date to ensure it follows the new RIBA Plan of Work 2013 as the guide to the architect's workflow. In addition, a number of changes to standard forms of contract were made with the publication of the JCT 2011 suite of contracts, and the RIBA Standard Form for the Appointment of an Architect 2010 (2012 Revision). These new forms are fully covered. In addition, the opportunity has been taken to reorganise the layout so that the content flows in a way that is more consistent with current architectural practice, and to deal with the increasing use of BIM. The eleventh edition of *The Architect in Practice* continues to provide the guidance and advice all students and practising architects need in the course of their studies and in their profession.

**The modern quantity surveyor (QS) plays a central role in the management of construction projects, although the exact nature of the role depends on who employs the QS. The Professional Quantity Surveyor engaged by the client and the Contractor's Quantity Surveyor have different roles to play in any construction project, with the contractor's QS role extending beyond measurement to the day-to-day running of building projects, estimating, contract administration and construction planning, as well as commercial, cost and project management. This book aims to provide readers with a practical guide into quantity surveying from a main contractor's perspective. Readers will acquire an understanding of the skills and competencies required by the contractor's quantity surveyor. Following a brief introduction, the book's early chapters cover measurement methodology and the contractor's business, with the rest of the chapters discussing commercial and contractual management of a construction project, including day-to-day running from commencement through to completion, in a highly practical way.**

**A Practical Guide for the Contractor's QS**

**Aircraft and Submarines**

**The History of Video Games**

**Elements of Quantity Surveying**

**Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium, and Zinc**

*This book is a potted history of video games, telling all the rollercoaster stories of this fascinating young industry that's now twice as big globally than the film and music industries combined. Each chapter explores the history of video games through a different lens, giving a uniquely well-rounded overview. Packed with pictures and stats, this book is for video gamers*

nostalgic for the good old days of gaming, and young gamers curious about how it all began. If you've ever enjoyed a video game, or you just want to see what all the fuss is about, this book is for you. There are stories about the experimental games of the 1950s and 1960s; the advent of home gaming in the 1970s; the explosion – and implosion – of arcade gaming in the 1980s; the console wars of the 1990s; the growth of online and mobile games in the 2000s; and we get right up to date with the 2010s, including such cultural phenomena as twitch.tv, the Gamergate scandal, and Fortnite. But rather than telling the whole story from beginning to end, each chapter covers the history of video games from a different angle: platforms and technology, people and personalities, companies and capitalism, gender and representation, culture, community, and finally the games themselves.

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. *Data Structures and Algorithms in Python* is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as *Data Structures and Algorithms in Java* and *Data Structures and Algorithms in C++*.

This authoritative text provides a detailed insight into how construction companies manage their finances at both corporate and project level. It will guide students and practitioners through the complexities of the financial reporting of construction projects within the constraints of accepted accounting practice. The book is written for non-accountants and from a contractor's perspective and is equally relevant to subcontractors and main contractors. The authors examine the relationship between the external annual accounts and the internal cost-value reconciliation process. CVR is covered in depth and the authors consider issues such as interim payments, subcontract accounts, contractual claims, final accounts, cash flow management and the reporting of the physical and financial progress of contracts. A broad perspective of all the financial aspects of contracting is taken along with related legal issues and the authors explain how things operate in the 'real world'. They describe good practice in financial control while at the same time being honest about some of the more questionable practices that can - and do - happen. The approach taken is unique as the financial management of construction projects is considered from the perspective of the contractor's quantity surveyor. The book deals with the real issues that surveyors have to address when using their judgment to report turnover, profitability, cash flow, and work in progress on projects and the financial problems faced by subcontractors are frankly and pragmatically explored. The payment and notice requirements of the Construction Act are explained in detail and relevant provisions of JCT2011, NEC3, ICC, DOM/1 and other standard contracts and subcontracts are also covered. *Financial Management in Construction Contracting* addresses the wide variety of external factors that influence how construction companies operate, including government policy, banking covenants and the financial aspects of supply chain management. Cost reporting systems are described and real-life examples are used to illustrate cost reports, accrual systems and how computerised systems can be employed to provide the QS with information that can be audited. Examples drawn from practice demonstrate how work-in-progress (WIP) is reported in contracting. Cost value reconciliation reports are featured and the book demonstrates how adjustments are made for overmeasure, undermeasure, subcontract liabilities and WIP as well as explaining the processes that contractors use when analysing external valuations. This is the ideal core text for final year degree and post-graduate level modules on Quantity Surveying, Commercial Management, Construction Management and Project Management courses and will provide an invaluable source of reference for quantity surveyors and others who may be engaged in the financial management of construction projects. The book's companion website at <http://www.wiley.com/go/xxxx> [www.wiley.com/go/rossfinancialmanagement/a](http://www.wiley.com/go/rossfinancialmanagement/a) offers invaluable resources for students and lecturers as well as for practising construction managers: end-of-chapter exercises + outline answers PowerPoint slides for each chapter ideas for discussion topics links to useful websites

The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon.

**Homelessness, Health, and Human Needs**

**Willis's Practice and Procedure for the Quantity Surveyor**

**Commercial Management in Construction**

**Implications for Reducing Chronic Disease Risk**

**The Architect in Practice**

There have always been homeless people in the United States, but their plight has only recently stirred widespread public reaction and concern. Part of this new recognition stems from the problem's prevalence: the number of homeless individuals, while hard to pin down exactly, is rising. In light of this, Congress asked the Institute of Medicine to find out whether existing health care programs were ignoring the homeless or delivering care to them inefficiently. This book is the report prepared by a committee of experts who examined these problems through visits to city slums and impoverished rural areas, and through an analysis of papers written by leading scholars in the field.

How is academia portrayed in children's literature? This Element ambitiously surveys fictional professors in texts marketed towards children, who are overwhelmingly white and male, tending to be elderly scientists. Professors fall into three stereotypes: the vehicle to explain scientific

*facts, the baffled genius, and the evil madman. By the late twentieth century, the stereotype of the male, mad, muddlehead, called Professor SomethingDumb, is formed in humorous yet pejorative fashion. This Element provides a publishing history of the role of academics in children's literature, questioning the book culture which promotes the enforcement of stereotypes regarding intellectual expertise in children's media. This title is also available, with additional material, as Open Access.*

*The Quantity Surveyor's Bible is essential reading for anyone interested in a career in the construction industry. Fully updated and expanded for this new edition, the book is a practical and realistic guide to a professional career as a Quantity Surveyor, Contracts Manager, or Project Manager. Told in a fun and user-friendly style, it's the sort of stuff they don't teach you at university, and is a behind-the-scenes - all-you-need-to-know - account of the author's own adventures in the construction industry. Covering topics such as starting out in the industry, the different hats you'll need to wear, freelancing, the value of communication, negotiating skills, and more - and filled with personal stories and case studies - The Quantity Surveyor's Bible is a must read for students and professionals alike.*

*The cost manager/quantity surveyor plays a pivotal role in the financial and contract management of construction projects, although the exact nature of the service they provide depends on the project employer's terms of engagement. This can mean acting as consultant in a range of roles including cost and advisory services for budget setting to initiate a project, cost management through the design and construction phases, contract administration and acting as the client side project manager to oversee the entire building process. Cost Management of Construction Projects focusses on the cost manager/quantity surveyor engaged by the project client, and discusses key elements that help drive project success including measurement (based on the New Rules of Measurement published by RICS), procurement, cost planning, contract administration and project cost management. With examples, it provides a thorough guide to the role in the workplace and in the field, directly addressing the day to day situations faced by the cost manager/quantity surveyor. Donald Towey MRICS has extensive experience of the construction industry. His experience began as an estimator with a glass/glazing contractor in Manchester. Following a number of positions with UK contractors he relocated to Australia and has worked with a number of developers and main contractors, as well as doing freelance work. He is currently working in contracts management in Sydney.*

*Your Happiness Was Hacked*

*The Story of the Invention, Development, and Present-day Uses of War's Newest Weapons*

*A User's Guide to the Moon*

*A History of the Rectangular Survey System*

*Building Quantities Explained*

“ Technology is a great servant but a terrible master. This is the most important book ever written about one of the most significant aspects of our lives—the consequences of our addiction to online technology and how we can liberate ourselves and our children from it. ” —Dean Ornish, M.D. Founder & President, Preventive Medicine Research Institute, Clinical Professor of Medicine, UCSF, Author, *The Spectrum Technology: your master, or your friend? Do you feel ruled by your smartphone and enslaved by your e-mail or social-network activities? Digital technology is making us miserable, say bestselling authors and former tech executives Vivek Wadhwa and Alex Salkever. We've become a tribe of tech addicts—and it's not entirely our fault. Taking advantage of vulnerabilities in human brain function, tech companies entice us to overdose on technology interaction. This damages our lives, work, families, and friendships. Swipe-driven dating apps train us to evaluate people like products, diminishing our relationships. At work, we e-mail on average 77 times a day, ruining our concentration. At home, light from our screens is contributing to epidemic sleep deprivation. But we can reclaim our lives without dismissing technology. The authors explain how to avoid getting hooked on tech and how to define and control the roles that tech is playing and could play in our lives. And they provide a guide to technological and personal tools for regaining control. This readable book turns personal observation into a handy action guide to adapting to our new reality of omnipresent technology.*

Let ' s face it, a lot of technical documentation reads as if it had been translated into English from Venutian by a native speaker of gibberish. Which is annoying for you and expensive for the manufacturer who pays with alienated customers and soaring technical support costs. That ' s why good technical writers are in such big demand worldwide. Now, *Technical Writing For Dummies* arms you with the skills you need to cash in on that demand. Whether you ' re contemplating a career as a technical writer, or you just got tapped for a technical writing project, this friendly guide is your ticket to getting your tech writing skills up to snuff. It shows you step-by-step how to: Research and organize information for your documents Plan your project in a technical brief Fine-tune and polish your writing Work collaboratively with your reviewers Create great user manuals, awesome abstracts, and more Write first-rate electronic documentation Write computer- and Web-based training courses Discover how to write energized technical documents that have the impact you want on your readers. Wordsmith Sheryl Lindsell-Roberts covers all the bases, including: All about the red-hot market for technical writing and how to get work as a technical writer The ABCs of creating a strong technical document, including preparing a production schedule, brainstorming, outlining, drafting, editing, rewriting, testing, presentation, and more Types of technical documents, including user manuals, abstracts, spec sheets, evaluation forms and questionnaires, executive summaries, and presentations Writing for the Internet—covers doing research online, creating multimedia documents, developing computer-based training and Web-based training, and writing online help Combining examples, practical advice, and priceless insider tips on how to write whiz-bang technical documents, *Technical Writing For Dummies* is an indispensable resource for newcomers to technical writing and pros looking for new ideas to advance their careers.

This volume is the newest release in the authoritative series issued by the National Academy of Sciences on dietary reference intakes (DRIs). This series provides recommended intakes, such as Recommended Dietary Allowances (RDAs), for use in planning nutritionally adequate diets for individuals based on age and gender. In addition, a new reference intake, the Tolerable Upper Intake Level (UL), has also been established to assist an individual in knowing how much is "too much" of a nutrient. Based on the Institute of Medicine's review of the scientific literature regarding dietary micronutrients, recommendations have been formulated regarding vitamins A and K, iron, iodine, chromium, copper, manganese, molybdenum, zinc, and other potentially beneficial trace elements such as boron to determine the roles, if any, they play in health. The book also: Reviews selected components of food that may influence the bioavailability of these compounds. Develops estimates of dietary intake of these compounds that are compatible with good nutrition throughout the life span and that may decrease risk of chronic disease where data indicate they play a role. Determines Tolerable Upper Intake levels for each nutrient reviewed where adequate scientific data are available in specific population subgroups. Identifies research needed to improve knowledge of the role of these micronutrients in human health. This book will be important to professionals in nutrition research and education.

*Operations Research: A Practical Introduction* is just that: a hands-on approach to the field of operations research (OR) and a useful guide for using OR techniques in scientific decision making, design, analysis and management. The text accomplishes two goals. First, it provides readers with an introduction to standard mathematical models and algorithms. Second, it is a thorough examination of practical issues relevant to the development and use of computational methods for problem solving. Highlights: All chapters contain up-to-date topics and summaries A succinct presentation to fit a one-term course Each chapter has references, readings, and list of key terms Includes illustrative and current applications New exercises are added throughout the text Software tools have been updated with the newest and most popular software Many students of various disciplines such as mathematics, economics, industrial engineering and computer science often take one course in operations research. This book is written to provide a succinct and efficient introduction to the subject for these students, while offering a sound and fundamental preparation for more advanced courses in linear and nonlinear optimization, and many stochastic models and analyses. It provides relevant analytical tools for this varied audience and will also serve professionals, corporate managers, and technical consultants.

*Why Tech Is Winning the Battle to Control Your Brain--and How to Fight Back*

*The Construction Chart Book*

*Estimating and Cost Planning Using the New Rules of Measurement*

*Lunar Sourcebook*

Data Structures and Algorithms in Python

Willis's Elements of Quantity Surveying has become a standard text in the teaching of building measurement - a core part of the degree curriculum for quantity surveyors. The book will be fully updated to follow the guidance given by RICS NRM 1 & 2. As in previous editions the focus remains a logical approach the detailed measurement of building elements and copious use of examples to guide the student. The text has been fully revised in line with the NRM guidance and includes many new and revised examples illustrating the use of NRM. The hallmarks of previous editions - clarity and practicality - are maintained, while ensuring the book is fully up to date, providing the student of quantity surveying with a first class introduction to the measurement of building elements.

The revised and updated comprehensive resource for Quantity Surveyors working with a construction contractor The second edition of Construction Quantity Surveying offers a practical guide to quantity surveying from a main contractor's perspective. This indispensable resource covers measurement methodology (including samples using NRM2 as a guide), highlights the complex aspects of a contractor's business, reviews the commercial and contractual management of a construction project and provides detailed and practical information on running a project from commencement through to completion. Today's Quantity Surveyor (QS) plays an essential role in the management of construction projects, although the exact nature of the role depends on who employs the QS. The QS engaged by the client and the contractor's QS have different parts to play in any construction project, with the contractor's QS role extending beyond traditional measurement activities, to encompass day-to-day tasks of commercial building activities including estimating, contract administration, and construction planning, as well as cost and project management. This updated and practical guide: Focuses on the application, knowledge and training required of a modern Quantity Surveyor Clearly shows how Quantity Surveying plays an essential central role within the overall management of construction projects Covers measurement methodology, the key elements of the contractor's business and the commercial and contractual management of a construction project The construction industry changes at fast pace meaning the quantity surveyor has a key role to play in the successful execution of construction projects by providing essential commercial input. Construction Quantity Surveying meets this demand as an up-to-date practical guide that includes the information needed for a Quantity Surveyor to perform at the highest level. It clearly demonstrates that quantity surveying is not limited to quantifying trade works and shows it as an important aspect of commercial and project management of construction projects.

6th Ed. Metric

Quantity Surveying Practice

Teaching Strategies That Change Student Attitudes and Get Results

Operations Research

The U.S. Construction Industry and Its Workers