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Introduction to Soil Mechanics, Béla Bodó & Colin Jones Introduction to Soil Mechanics covers the basic principles of soil mechanics, illustrating why the properties of soil are important, the techniques used to understand and characterise soil behaviour and how that knowledge is then applied in construction. The authors have endeavoured to define and discuss the principles and concepts concisely, providing clear, detailed explanations, and a well-illustrated text with diagrams, charts, graphs and tables. With many practical, worked examples and end-of-chapter and coverage of Eurocode 7, Introduction to Soil Mechanics will be an ideal starting point for the study of soil mechanics and geotechnical engineering. About the Authors Béla Bodó B.Sc., B.A., C.Eng., M.I.C.E, was born in Hungary and studied at Budapest Technical University, the University of London and the Open University. He developed his expertise in Soil Mechanics during his employment with British Rail and British Coal. Colin Jones B.Sc, C. Eng., M.I.C.E, P.G.C.E, studied at the University of Dundee, and worked at British Coal where he and Béla were colleagues. He has recently retired from the University of Wales, Newport where he was Programme Director for the Civil Engineering provision, specializing in Soil Mechanics and Geotechnics. Also Available Fundamentals of Rock Mechanics 4th Edition J C Jaeger, N G W Cook and R Zimmerman Hardcover: 9780632057597 Smith's Elements of Soil Mechanics 8th Edition Ian Smith Paperback:

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Companies live or die on the basis of estimating their costs. Preparing estimates and bidding for new jobs is a complex and often costly process. There is no substitute for on the job training -- until now. Drawing on the authors' combined experience of more than 70 years, *Estimating Building Costs* presents state-of-the-art principles, practices, and techniques for assessing these expenditures that can be applied regardless of changes in the costs of materials, equipment, and labor. The book is an efficient and practical tool for developing contracts or controlling project costs. The authors cover the major components of the direct cost: estimating procedures and cost trends related to materials, construction equipment, and skilled and unskilled labor. They describe various types of building estimates encountered during the lifecycle of a project, as well as the role and accuracy of each. The book provides an overview of the industry, cost indexes in use, approaches to preparing a detailed estimate, and an in-depth description of the organization and function of the estimating group. Including CSI Master Format and UniFormat codes, estimating forms, a list of available estimating software packages, a detailed construction site and investigation report, the book provides a cost estimating methodology that readers can tailor to their own organizational needs.

This publication breaks new ground. It is the first document to provide extensive life-span assessments (for insurance purposes) for a wide range of building components

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which are classified within the concept of quality specifications. A further benefit is that it does not seek to be prescriptive. It indicative 'benchmarks' against which new or differing specifications can be assessed, in that sense it is both robust and flexible. This book is an introductory text on building measurement and estimating for simple buildings in Hong Kong, based on the Hong Kong Standard Method of Measurement of Building Works 4th Edition Revised 2018 (HKSMM4 Rev 2018). It provides a toolkit for students and surveying technicians who are new to the subject. This second edition updates the contents in line with the HKSMM4 Rev 2018 and incorporates the latest industry developments such as BIM. The main text is divided into five parts following the development of a typical project. Part 1, Building the project team, introduces the team setup for a typical project. Part 2, Deciding the procurement strategy, explains the various procurement decisions to be made by an employer before any cost estimating and measurement work takes place. Part 3, Preparing for tender, covers the tendering methods, tender documentation and approximate estimating techniques used by Quantity Surveyors. Part 4, Measuring quantities, introduces measurement principles and HKSMM4 Rev 2018, followed by a detailed review of the measurement methods for each major trade, with worked examples. Part 5, Estimating unit rates, explores the basic techniques for unit rate preparation. The book contains worked examples from real Hong Kong building projects, self-assessment questions, reminders and points of note. It is essential reading for Hong Kong construction and surveying students,

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international Quantity Surveyors working in the local area and those wanting international examples of Quantity Surveyors practice.

Governmental guidelines have forced a dramatic change in the practice of archaeological surveying in recent decades. In response to public and private development, surveying is needed to accurately inventory the cultural resources of a region and provide guidance for their preservation and management. Greg White and Tom King provide a handy introduction to students, field novices, and land managers on the strategies, methods, and logic of contemporary survey work. In addition to providing the legal and historical context for this endeavor the book provides a heavily illustrated, practical guide to conducting a survey to help beginners understand how it works in practice. This volume is perfect for an archaeological methods class, field school, or reference collection.

This pocket-sized book is a concise guide to the basics of estimating construction costs for residential and light commercial building projects. It provides a step-by-step guide to estimating the total cost of a construction project. It takes readers through five phases that lead to a successful estimate: initial assessment, work analysis, programming, costing and cost distribution and summarization. The book's primary targets are small contractors; however, the principles set forth in the book are applicable to all contractors. The book could also serve as a

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textbook for estimating classes in construction management programs at universities and community colleges. The last section of the book provides useful but not readily available information for estimators on diverse topics, e.g., detailed information about Value Engineering, scheduling, subcontractor selection, bid summarization, and so on. An extensive glossary of construction terms is also included. Readers in all construction capacities will find: * A new, fresh look at the often baffling and deceptive job of estimating construction costs for residential and light commercial construction * How to assess plans, review bonds, and evaluate the site and the project schedule before beginning a cost take-off * How to integrate a cost estimate into a general accounting program for cost management and eventual billing * Incredibly helpful appendix with common construction standards and measurements--from standards for concrete forms, to nail sizes to commercial lumber sizes, and much more!

The Manual of Museum Planning has become the definitive text for museum professionals and others who are concerned with the planning, renovation, or expansion of a public gallery or museum. This third edition features new sections on operations and implementation as well as revised sections on planning for visitors, collections, and the building itself.

The third edition of the Quantity Surveyor's Pocket Book has been updated in

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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.

This book covers the whole range of skills and knowledge that modern quantity surveyors require to perform their work efficiently and effectively. The text has been thoroughly revised and substantially extended to enhance its value to the reader. All the basic skills of the quantity surveyor in construction procurement, contract administration and cost control and management are dealt with in sufficient detail to meet the needs of students. The newly developing areas of project management and value management are examined and illustrated in a

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practical way.

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.

The Quantity Surveyor's Pocket Book outlines all the practical skills, contractual and management techniques needed by a student studying quantity surveying in a handy-sized format for quick reference. Arming you with a complete toolbox to each project stage, this book brings together both the measurement and consultancy aspect of QS in a compact pocket book. Covering material key topics such as forecasting, measurement, estimation and contracts in the order it arises in a typical surveying project cycle ensures understanding of key processes and techniques, as well as when and how to use them.

Recommended forms for reports, cost plans, final accounts and financial statements are also covered. A no-nonsense how-to approach makes this book an ideal companion to any course textbook. Perfect if you are on a quantity surveying degree, HNC/HND or 1-2 year post-graduate conversion course and require a simple guide to fundamental quantity surveying skills and procedures,

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also ideal if you are newly-qualified and need an on-site/on-the-job reference. This is a concise, affordable pocketbook bringing together practical, contractual and management techniques. It Covers skills and processes needed at each stage of a project and is ideal if you have just qualified as a quantity surveyor and need an on-site/on-the-job reference. *A concise, affordable pocketbook bringing together practical, contractual and management techniques *Covers skills and processes needed each stage in a project *Ideal if you have just qualified quantity surveyors and need an on-site/on-the-job reference.

Estimators need to understand the consequences of entering into a contract, often defined by complex conditions and documents, as well as to appreciate the technical requirements of the project. Estimating and Tendering for Construction Work, 5th edition, explains the job of the estimator through every stage, from early cost studies to the creation of budgets for successful tenders. This new edition reflects recent developments in the field and covers: new tendering and procurement methods the move from basic estimating to cost-planning and the greater emphasis placed on partnering and collaborative working the New Rules of Measurement (NRM1 and 2), and examines ways in which practicing estimators are implementing the guidance emerging technologies such as BIM (Building Information Modelling) and estimating systems which can interact with

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3D design models With the majority of projects procured using design-and-build contracts, this edition explains the contractor's role in setting costs, and design statements, to inform and control the development of a project's design. Clearly-written and illustrated with examples, notes and technical documentation, this book is ideal for students on construction-related courses at HNC/HND and Degree levels. It is also an important source for associated professions and estimators at the outset of their careers.

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

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of key performance indicators (KPI's) as a means of increasing project and company performance ? highlights the benefits of teamworking.

In this updated and expanded second edition, Keith Potts and Nii Ankrah examine key issues in construction cost management across the building and civil engineering sectors, both in the UK and overseas. Best practice from pre-contract to post-contract phases of the project life-cycle are illustrated using major projects such as Heathrow Terminal 5, Crossrail and the London 2012 Olympics as case studies. More worked examples, legal cases, case studies and current research have been introduced to cover every aspect of the cost manager's role. Whole-life costing, value management, and risk management are also addressed, and self-test questions at the end of each chapter support independent learning. This comprehensive book is essential reading for students on surveying and construction management programmes, as well as built environment practitioners with cost or project management responsibilities. Basic Civil Engineering is designed to enrich the preliminary conceptual knowledge about civil engineering to the students of non-civil branches of engineering. The coverage includes materials for construction, building construction, basic surveying and other major topics like environmental engineering, geo-technical engineering, transport traffic and urban engineering,

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irrigation & water supply engineering and CAD.

This book provides a checklist, classified by work section, which will enable the cost engineer to ensure that no items of significant cost have been omitted.

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 Quantity Surveyor's Bible Oakamoor Publishing

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

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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.

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This second edition of the Quantity Surveyor's Pocket Book is fully updated in line with NRM1, NRM2 and JCT(11), and remains a must-have guide for students and qualified practitioners. Its focussed coverage of the data, techniques, and skills essential to the quantity surveying role make it an invaluable companion for everything from initial cost advice to the final account stage. Key features include: the structure of the construction industry cost forecasting and feasibility studies measurement and quantification, with NRM2 and SMM7 examples estimating and bidding whole life costs contract selection final account procedure. 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.

This manual provides the reader with an accurate and convenient method for estimating direct labor for general construction work for any given system, plant, or location. Though this book, the reader has a reliable process of obtaining and streamlining an efficient model of operation.

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

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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 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

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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.

Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The Building Construction Handbook is THE authoritative reference for all construction students and professionals. Its detailed drawings clearly illustrate the construction of building elements, and have been an invaluable guide for builders since 1988. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques, and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the

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construction industry.

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