

QUANTITY SURVEYING

Q: Prepare an estimate of the building shown below:

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Door D : 1.20 x 2.10  
Window W : 1.00 x 1.50

Wall thickness = 30cm

Ans:

Sl. No.	Item of work	No.	L	B	H	Quantity	Remarks
1.	Earthwork in excavation using manual or mechanical means, for foundation trenches	1	39.50	0.60	0.80	18.96 m <sup>3</sup>	Assume foundation trench 60cm wide & 80cm deep. Centerline lengths outer : (4.00 + 6.00 + 0.30) + 6.00 + 0.30) x 2 = 33.80m Inner = (6.00 + 0.30) - 0.60 = 5.70m Total c/l length = 39.50m
2.	Plain Cement Concrete of mix 1:4:8 in foundation	1	39.50	0.60	0.20	4.74 m <sup>3</sup>	Assume 20cm thickness c/l Length same as above = 39.50m
3.	Random Rubble Masonry in cement mortar 1:6. (a) In Foundation (b) In Basement	1 1	39.50 39.65	0.60 0.45	0.60 0.45	14.22 m <sup>3</sup> 8.02 m <sup>3</sup>	Assume foundation of 60cm width & 60cm depth. Basement of size 45 x 45 cm. c/l for foundation outer = 33.80m inner = (6.00 + 0.30) - 0.60 Total = 39.50m c/l for Basement outer = 33.80m inner = (6.00 + 0.30) - 0.45 Total = 39.65m
						22.25 m <sup>3</sup>	

# Quantity Surveyor Formulas

**Anthony Speaight, Gregory Stone**

## Quantity Surveyor Formulas:

**Construction Quantity Surveying** Donald Towey, 2012-05-18 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

**Construction Management JumpStart** Barbara J. Jackson, 2010-06-03 Launch your career in construction management with this one of a kind book The construction management industry is expected to increase employment by 16 percent over the next decade This second edition of a bestselling introduction to construction management walks you through each stage of the construction management process Written from the constructor s perspective this book will familiarize you with all the construction management fundamentals and how Building Information Modeling BIM is impacting the construction management profession Covers interoperability of technology advances in the construction industry Explains how BIM is challenging the traditional approach to project delivery and how this affects the constructor s role Elaborates each stage of the design and construction process and the tasks associated with each of them Shows step by step how to estimate project costs administer contracts manage job site and construction operations plan and schedule a project monitor project performance manage project quality and safety and assess project risks Provides review questions at the end of each chapter to help enforce understanding The tried and true project management principles presented in this book will help ensure you a successful start to your career

**A Complete System for Estimating the Quantities and Costs of Frame and Brick Houses** Alfred J. Donley, 1926

**The JCT 05 Standard Building Contract** Issaka E. Ndekugri, Michael E. Rycroft, 2009 This title helps clarify complex areas of the JCT 05 standard building contract making it an essential reference for professionals seeking to update their knowledge The book works through the contract issues thoroughly yet clearly using case law examples to demonstrate the latest amendments in regards to the Construction Act

**Architect's Legal Handbook** Anthony Speaight, Gregory Stone, 2014-05-15 Architect s Legal Handbook The Law for Architects Fifth Edition is a collection of papers including those on International Work by Architects on European community Law affecting Architects and the Architects Professional Indemnity Insurance This collection is a comprehensive guideline to laws in England Scotland and the European community This handbook seeks to

make architects more aware of where possible legal pitfalls may lurk Coverage is updated to include changes in English Law Scottish Law English Law of Contract the Law of Tort Architect s Appointment and Collateral Warranties Architects Liability English and Scottish Land Laws and the Standard Building Contracts in England The origins and sources of the laws and the basic principles are explained which guide the reader into how these are applied in the architects relations with their clients and clients contractors A wider discussion is given on the topic of collateral warranties incorporation options and legal organizations such as partnerships and limited companies Upon the formation of the European Community institutions and treaties have arisen so a review of technical harmonization and standards right of establishment and freedom to provide services product liability and consumer protection is provided in order The international workplace for British architects is also discussed covering most countries in Europe This collection of papers will prove useful for architects and engineers especially those who want to put up their own architectural firms The book can be likewise an informative source for architectural students lawyers and professors in business and commercial law

*Laxton's Building Price Book 2002* V B Johnson,2001-10-10 Laxton s gives you access to the most reliable and current data All 250 000 price elements have been individually checked and updated for the 2002 edition so that your estimates are always accurate and cost competitive Laxton s makes analytical estimating simple and straightforward by displaying a complete breakdown for all measured items under 10 separate headings all on a single page This shows you a complete price build up at a glance and gives you the option to make price adjustments wherever necessary You can find the sections you need quickly and easily via the special marker system on the front cover and page edges The free CD with this price book contains Masterbill s ESTIMATOR software and fully resourced data on all the price elements in Laxtons Not only does the CD offer fast and efficient pricing at the touch of a button it gives details of all the resources required to do the job Laxton s approximate estimating section gives all in pricing for quick reference on the cost of composite items such as floors helping you calculate the cost implications of using plywood sheeting rather than softwood boarding for example Laxton s Basic Price section gives you a quick price on hundreds of items from concrete work to roofing materials to save you going through hundreds of lists from suppliers manufacturers and building merchants Laxton s Brand and Trade Names section lists over 12 000 brands and trade names and company addresses to help you locate specific items Latest wage rates fees and allowances All 250 000 price elements checked and updated

*More Advanced Quantity Surveying* Arthur James Willis,1948 **Building Material Estimates and Rates Build Up** Moremi Mareka,2009-05-29 The script is entitled Building Estimates and Rates Build Up and aims at empowering Technical educators Technical Brigades and Community colleges students Apprentices and individuals in the building profession with the necessary skill and knowledge As an experienced professional in the building industry quantity surveyor building material estimator and a former lecturer for technical colleges I have realized that there is need to come up with a book that will help students apprentices and individual builders to easily understand the subject of estimating and

rates build up to enable them to apply the skill whenever they have projects Currently individual builders apprentices and students find it difficult to correctly and accurately estimate the quantities of materials required for proposed projects Pricing is also a difficult task for most of them as they do not have an idea of how to build up rates Presently our brigades and technical colleges do not have a relevant book to deal with Estimates Building Estimates and Rates build up provides a solution to such a problem The book provides a solution in that it brings together pure mathematics and practical estimation to avoid a situation whereby students end up failing to realize that the same formulas that are used in Mathematics math are applicable in the estimates I strongly believe that the book will be able to even penetrate the international market

**Surveyor and Municipal and County Engineer** ,1900      **The Michigan Architect and Engineer** ,1927

**Construction Contracts** David Chappell,2015-03-24 Construction professionals of all kinds frequently need legal advice that is straightforward as well as authoritative and legally rigorous Building on the success of two previous editions David Chappell returns to provide answers to 225 FAQs from his experience as Specialist Advisor to the RIBA With 50 new questions and thorough updates to address changes to the law and contracts this is an invaluable first port of call for any construction law problem Questions range in content from extensions of time liquidated damages and loss and or expense to issues of practical completion defects valuation certificates and payment architects instructions adjudication and fees Among the new questions are Is the contractor bound by its price even if there is an error How do terms about working in a spirit of trust affect other clauses Can architects lose their rights to certify under JCT 2011 contracts Every question included has been asked of David Chappell during his career and he uses his vast experience to provide clear easy to follow advice in this book Most were originally asked by architects but the answers will be of wide interest to everyone involved in construction

**The American Contractor** ,1929      **Building and Engineering News** ,1927      *The Chartered Surveyor* ,1979

**Professional Engineer** ,1927      **Stone** ,1927      *The Surveyor & Municipal & County Engineer* ,1930      *Building World* ,1911      *Industrial Arts Index* ,1930      LAXTON'S BUILDING PRICE BOOK 2007 V B Johnson,2006-10-16 Now in its 179th edition Laxton s has become a firm favourite in the UK Building Industry With more prices and more in depth build ups Laxton s offers more practical and complete information than any other price book available This new edition takes into account major price variations that stem frm raw material costs in the last few months Higher fuel costs have impacted on prices across the board in particular costs of non ferrous metals in increased Copper sheet and pipe show prince increases of well above 50% in the last year while zinc lead and aluminium prices have also risen significantly There are savings in plaster and drainage goods prices are down All the prices in Laxton s are based on the new 3 year Construction Industry Joint council wage rate agreement that came into force at the end of June 2006 Saving you time comprehensive basic price and approximate estimating sections make putting together outline costings quicker and easier Saving you effort all the information you need on each measured item is clearly set out on a single page with a full break down of costs Saving you

money all 250 000 prices are individually checked and updated to make sure that your tender costs are precise

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