



CHAPTER 4

Methods of Measurements, SMM7, NRM, and (CESMM 4)

4-1



Introduction

- In General , Standard provides :
 - detailed information,
 - classification tables and
 - rules for measuring building works.
 - Preparing Bills Of Quantities
- It is important that there is a uniform basis for *measuring building works (civil engineering works)* in order to facilitate industry wide consistency and benchmarking, to encourage the adoption of best practice and to help avoid disputes.

4-2

Comparison Between Nrm2 And Cesmm 4

Donald Towey



Comparison Between Nrm2 And Cesmm 4:

Estimator's Pocket Book Duncan Cartlidge, 2024-06-03 The Estimator's Pocket Book Third Edition is a concise and practical reference covering the main approaches to pricing as well as useful information such as how to process sub contractor quotations tender settlement and adjudication It is fully up to date with the New Rules of Measurement NRM2 2nd Edition throughout and based on up to date wage rates legislative changes and guidance notes The book includes instructions on how to carry out an NRM order of cost estimate unit rate pricing for a range different trades pro rata pricing for variations and the preparation and pricing of builders quantities and approximate quantities This book is an essential source of reference for quantity surveyors cost managers project managers and anybody else with estimating responsibilities

Design and Build Contracts Guy Higginbottom, 2023-10-02 DESIGN AND BUILD CONTRACTS Design and build D often echoing the ways in which contracts for infrastructure and process plant can be procured Whilst D FIDIC Conditions of Contract for Plant Design Build 2017 and NEC4 How each D B contract is intended to operate during each stage of the RIBA Plan of Work 2020 How the operation of D B contracts and their procedures are often amended An ideal resource for contractors employers and consultants as well as those studying construction at university Design and Build Contracts offers helpful commentary and guidance for how each stage of a D B engineering or construction project should progress

Estimator's Pocket Book , 2013-06-03 The Estimator's Pocket Book is a concise and practical reference covering the main pricing approaches as well as useful information such as how to process sub contractor quotations tender settlement and adjudication It is fully up to date with NRM2 throughout features a look ahead to NRM3 and describes the implications of BIM for estimators It includes instructions on how to handle the NRM order of cost estimate unit rate pricing for different trades pro rata pricing and dayworks builders quantities approximate quantities Worked examples show how each of these techniques should be carried out in clear easy to follow steps This is the indispensable estimating reference for all quantity surveyors cost managers project managers and anybody else with estimating responsibilities Particular attention is given to NRM2 but the overall focus is on the core estimating skills needed in practice

Construction Contract Preparation and Management Geoff Powell, 2016-03-18 This practical user friendly textbook starts at the beginning of construction projects and makes important connections between stages accompanied by helpful illustrations and real life industry examples Contracts and agreements underpin the whole construction industry and yet many graduates and young professionals do not realise just how important they are Misunderstandings and mistakes can be extremely expensive and cause considerable delay The textbook provides extensive explanation of the most commonly used forms of contract an introduction to the general principles of contracts and the implications of contract law and negligence as they affect the construction professional Written by an author with extensive previous industry experience before he became a lecturer this text is aimed at students of Contract Management Procedures at both undergraduate and postgraduate level on both Civil Engineering and

Construction courses It is also helpful for starting professionals New to this Edition Often overlooked aspects of NEC contracts such as contractor design Coverage of NEC ECC 2013 JCT 2011 CDM 2015 and the revised Public Contracts Regulations 2015 More extensive advice on money time and programmes and their importance Managing Measurement Risk in Building and Civil Engineering Peter Williams, 2015-11-16 Measurement in civil engineering and building is a core skill and the means by which an architectural or engineering design may be modelled financially providing the framework to control and realise designs within defined cost parameters to the satisfaction of the client Measurement has a particular skill base but it is elevated to an art because the quantity surveyor is frequently called upon to interpret incomplete designs in order to determine the intentions of the designer so that contractors may be fully informed when compiling their tenders Managing Measurement Risk in Building and Civil Engineering will help all those who use measurement in their work or deal with the output from the measurement process to understand not only the ins and outs of measuring construction work but also the relationship that measurement has with contracts procurement claims and post contract control in construction The book is for quantity surveyors engineers and building surveyors but also for site engineers required to record and measure events on site with a view to establishing entitlement to variations extras and contractual claims The book focuses on the various practical uses of measurement in a day to day construction context and provides guidance on how to apply quantity surveying conventions in the many different circumstances encountered in practice A strong emphasis is placed on measurement in a risk management context as opposed to simply taking off quantities It also explains how to use the various standard methods of measurement in a practical working environment and links methods of measurement with conditions of contract encompassing the contractual issues connected with a variety of procurement methodologies At the same time the many uses and applications of measurement are recognised in both a main contractor and subcontractor context Measurement has moved into a new and exciting era of on screen quantification and BIM models but this has changed nothing in terms of the basic principles underlying measurement thoroughness attention to detail good organisation making work auditable and above all understanding the way building and engineering projects are designed and built This book will help to give you the confidence to both measure and understand measurement risk issues by presenting the subject of measurement in a modern context with a risk management emphasis recognising the interrelationship of measurement with contractual issues including identification of pre and post contract measurement risk issues emphasising the role of measurement in the entirety of the contracting process particularly considering measurement risk implications of both formal and informal tender documentation and common methods of procurement conveying the basic principles of measurement and putting them in an IT context incorporating detailed coverage of NRM1 and NRM2 CESMM4 Manual of Contract Documents for Highway Works and POM I including a comparison of NRM2 with SMM7 and a detailed analysis of changes from CESMM3 to CESMM4 discussing the measurement implications of major main and sub contract conditions JCT

NEC3 Infrastructure Conditions and FIDIC providing detailed worked examples and explanations of computer based measurement using a variety of industry standard software packages **Quantity Surveyor's Pocket Book** Duncan Cartlidge,2022-02-28 The fourth edition of Quantity Surveyor s Pocket Book 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 are as follows The impact of Brexit on construction and public procurement New developments in digital construction Renewed focus on ethics in the industry Up to date analysis of NRM1 2 and 3 Latest practice guidance notes and government publications Post contract administration A companion website with alternative approaches to taking off quantities using spreadsheets 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 **Estimating and Tendering for Construction Work** Martin Brook,2016-12-08 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 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 **Quantity Surveyor's Pocket Book** Duncan P. Cartlidge,2013 Now substantially revised and fully up to date with NRM1 and NRM2 the Quantity Surveyor s Pocket Book remains the essential reference for newly qualified and student quantity surveyors Outlines all of the practical skills contractual and management techniques needed in the profession with a no nonsense approach **Construction Quantity Surveying** Donald Towey,2017-09-07 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 Project Finance for Construction Anthony Higham,Carl Bridge,Peter

Farrell,2016-12-08 The world of construction is intrinsically linked with that of finance from the procurement and tendering stage of projects right through to valuation of buildings In addition to this things like administrations liquidations mergers take overs buy outs and floatations affect construction firms as they do all other companies This book is a rare explanation of common construction management activities from a financial point of view While the practical side of the industry is illustrated here with case studies the authors also take the time to build up an understanding of balance sheets and P L accounts before explaining how common tasks like estimating or valuation work from this perspective Readers of this book will not only learn how to carry out the tasks of a construction cost manager quantity surveyor or estimator they will also understand the financial logic behind them and the motivations that drive senior management This is an essential book for students of quantity surveying or construction management and all ambitious practitioners

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