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Civil Engineering Contracts and Estimates Civil Engineering Contracts And Estimates (3rd Edition) Civil Engineering Contracts Civil Engineering Contracts and Estimates Civil Engineering Contracts and Estimates Hudson's Building and Engineering Contracts Cost Estimation of Architect and Engineer Contracts Engineering Contracts and Specifications Engineering and Design Engineering and Contracting Manual Engineering Contracts and Specifications Contracting for Construction and Architect-engineering Services Engineering Contracts and Specifications; Including Aspects of Civil Engineering Contract Procedure The Commercial Management of Engineering Contracts B.S.Patil's Building and Engineering Contracts, 7th Edition Engineering Contracts and Specifications Engineering Contracts and Specifications Engineering Contracts and Specifications Cost Estimates Contracting for Construction & Architect/engineering Services The Law of Building, Engineering, and Ship Building Contracts A Manual of Engineering Specifications and Contracts Principles of Estimating The Law Relating to Building and Engineering Contracts Aspects of Civil Engineering Contract Procedure A Manual of Engineering Specifications and Contracts The Engineer's Cost Handbook Legal Phases of Engineering B. S. Patil's Building and Engineering Contracts The Economics of Contracting Liquidated Damages and Extensions of Time Managing Measurement Risk in Building and Civil Engineering Building and Civil Engineering Vocabulary. Contract Terms Engineering-contracting The Law Affecting Engineers A Course of Lectures on Engineering Contracts and Specifications Target Cost Contracts Contracts, Specifications and Engineering Relations A Manual of Engineering Specifications and Contracts

Architectural and engineering firms are selected for government projects via a technical competition method with a fair and reasonable fee determined through negotiations. The criteria for what is fair and reasonable is the government estimate. There is a limited guidance available on the preparation of estimates for A/E contracts. Additionally, there is limited use of empirical information due to the lack of an organized database. This research defined the cost estimation method as a decision process and supported that process with numerous analytical computations, statistical techniques, and regression cost models derived from a database comprised of previous A/E contract awards. This approach was effective in that estimates were generated which more closely represented negotiated fees. (Author). Revised and expanded, this book provides an up-to-date and comprehensive description of civil engineering contract procedures, and covers the whole spectrum of the legal, contractual and valuation implications of contracts for construction works. This third edition covers relevant English Law up to 1983. The extensive amendments also include a thoroughly revised chapter on overseas contracts, and a comparison of the JCT 80 contract with the ICE contract. Offers coverage of each important step in engineering cost control process, from project justification to life-cycle costs. The book describes cost control systems and shows how to apply the principles of value engineering. It explains estimating methodology and the estimation of engineering, engineering equipment, and construction and labour costs From the standpoint of practising engineers, architects and contractors, the law of contract is the most important one and, from preparation of technical documents to its execution and in the determination of disputes, the engineer or architect must have relevant knowledge. This book acts as a practical guide to building and engineering contracts. All points are explained with illustrations gathered from decided court cases. This book covers the substantive law of contract applicable to building and engineering contracts with updated noteworthy judgments. FIDIC conditions are mentioned at appropriate places with a global focus. Key Features: Guide for a full and thorough understanding of the contractual undertakings of the civil engineering industry, primarily in India Discusses specific conditions which are fertile sources of disputes, referring to and commenting upon the FIDIC conditions Covers internationally adopted standard form conditions of contract with analysis, discussions and interpretations, with decided court cases from India and abroad Focuses on technical civil engineering aspects Addresses cases from countries including UK, US, Canada, Australia, New Zealand and India Liquidated damages and extensions of time frequently form the basis of contract claims made under standard building and civil-engineering contracts. This book, which was very well received in its first edition, covers legal principles and examines in depth the relevant clauses of standard construction contracts. This second edition includes a number of new contracts (including the new Engineering Contract) as well as recent court decisions. 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 Current practice on most contracts dictates that the engineer deals with engineering matters and the quantity surveyor covers the commercial aspects. As a result, engineers have become increasingly uneasy at setting rates, evaluating claims and of pricing work generally. This book provides engineers with a sound all round ability and commercial adeptness in price estimating. Author Trevor Holroyd draws on his experience of consulting and professional training in his latest book which will appeal to civil and structural engineers, surveyors, contractors, consulting practices and more. Gives a compact presentation of the legal and business aspects of the engineering profession, and stresses the hazards resulting from errors and omissions in contract documents. For other editions, see Author Catalog. Contracts and estimates, two important aspects of civil engineering, are dealt with here. Thoroughly revised and updated, the book deals in the first part with legal aspects, project scheduling, and updated material on tenders and contracts. The second part deals with costs and prices, and discusses a variety of projects such as residential construction, building of bridges and laying of railway tracks. Hudson's is recognised as a source of reliable information on the interpretation and drafting of building and civil engineering contracts. This edition covers recent developments in the law on construction contracts. Civil Engineering Contracts: Practice and Procedure, Second Edition explains the contract procedures used in civil engineering projects. Topics covered include types of contract in civil engineering, general conditions of contract, insurances, and tender procedures. The powers, duties, and functions of the engineer and his representative are also considered. This book is comprised of 14 chapters and begins with an overview of the philosophy underlying the contract system in civil engineering, followed by a discussion on the promotion of civil engineering works. The reader is then introduced to types of civil engineering contracts; contract risk and contract responsibility; the application of contract documents; and general conditions of contract. The remaining chapters focus on contract specifications; bill of quantities and methods of measurement; principles and types of insurance; procedures for competitive bids or tenders; cost estimates, methods of pricing, and rate fixing; and claims on civil engineering contracts. The final chapter is devoted to arbitration and related procedure for the settlement of contract disputes. This monograph will be useful to practicing civil engineers who are involved with contract administration and to younger engineers who are aspiring to obtain professional qualifications. Title: B.S.Patil's Building and Engineering Contracts, 7th Edition Shelving Guide: Civil and Mechanical Engineering Back Cover Copy: From the standpoint of practising engineers, architects and contractors, the law of contract is the most important one and, from preparation of technical documents to its execution and in the determination of disputes, the engineer or architect must have relevant knowledge. This book acts as a practical guide to building and engineering contracts. All points are explained with illustrations gathered from decided court cases. This book covers the substantive law of contract applicable to building and engineering contracts with updated noteworthy judgments. FIDIC conditions are mentioned at appropriate places with a global focus. Key Features: Guide for a full and thorough understanding of the contractual undertakings of the civil engineering industry, primarily in India Discusses specific conditions which are fertile sources of disputes, referring to and commenting upon the FIDIC conditions Covers internationally adopted standard form conditions of contract with analysis, discussions and interpretations, with decided court cases from India and abroad Focuses on technical civil engineering aspects Addresses cases from countries including the UK, the US, Canada, Australia, New Zealand and India of the contractual undertakings of the civil engineering industry, primarily in India Discusses specific conditions which are fertile sources of disputes, referring to and commenting upon the FIDIC conditions Covers internationally adopted standard form conditions of contract with analysis, discussions and interpretations, with decided court cases from India and abroad Focuses on technical civil engineering aspects Addresses cases from countries including the UK, the US, Canada, Australia, New Zealand and India Construction works, Construction engineering works, Vocabulary, Terminology, Construction systems parts, Construction operations, Construction, Contracts, Building contracts, Documents, Tenders, Commercial documents, Legal documents, Sales documents, Cost accounting, Estimates, Engineering drawings

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