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Civil Engineering Contract Administration and Control

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Second Edition

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**'For which of you, intending to build a tower, sitteth not down first,
and counteth the cost, whether he have sufficient to finish it?'**

Luke 14.28

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Preface to Second Edition

This book is aimed at civil engineers and civil engineering contractors and at students on civil engineering degree and diploma courses. Allied professions such as construction and quantity surveyors may find its contents of interest and value.

The diverse aspects of civil engineering contract administration are examined and described, with relevant supporting examples. It starts by considering the general backcloth to civil engineering works and contracts, including funding, preliminary investigations and the preparation of engineer's reports. The form and purpose of the various contract documents are examined and the principal requirements of the ICE Conditions summarised and explained.

The principal tendering arrangements are described and compared, together with the more commonly practised approaches to estimating the cost of civil engineering works.

Site organisation and supervision are covered in sufficient depth to illustrate the means by which a civil engineering project can be effectively planned, managed and controlled, and having regard to such important aspects as productivity, plant usage and safety of operatives.

One of the major problems encountered in the operation of civil engineering contracts is a weakness in communication between the parties to the contract and site personnel. Vital communication requirements are described and illustrated, including the preparation of site documents and records and the purpose and conduct of site meetings.

The method of measuring and valuing civil engineering works is explored and this encompasses the use of daywork, issue of interim certificates, settlement of final accounts, valuation of variations and financial control of contracts.

Finally, the book examines the background to contractors' claims and how they should be presented by the contractor and dealt with by the engineer. The disruptive effect of variations and the main causes of loss and expense to the contractor are considered at length, together with the assessment of liquidated damages.

The second edition has been fully updated and extended where appropriate to take cognisance of the Sixth Edition of the ICE Conditions, CESMM3, revised British Standards and other developments. It also includes a study of the effect of European Community harmonisation arrangements on the construction industry and the operation of quality assurance in civil engineering.

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IVOR H. SEELEY

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