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Civil Engineering Quantities

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Third Edition

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Preface to Third Edition

This book has been substantially rewritten to take account of changes in the Conditions of Contract for use in connection with Works of Civil Engineering Construction and the entirely new philosophy and approach introduced by the 1976 Civil Engineering Standard Method of Measurement (CESMM). Steps have been taken to extend the usefulness of the book and yet, at the same time, make it more concise.

The new CESMM seeks to secure a more comprehensive, uniform and rationalised approach to measurement with its standardised terminology and three levels of description. The introduction, for the first time, of method-related charges deserves particular attention, and their use on a wide scale should reduce Contractors' cash flow problems and assist considerably with the pricing of variations. Not all costs are proportional to the quantities of permanent work on the majority of civil engineering contracts, and the use of method-related charges assists in the identification and assessment of such costs.

This edition examines the new CESMM in detail and applies the Method to a wide range of constructional work by means of worked examples. The worked examples contain suitable drawings and the hand-written dimensions are accompanied by extensive explanatory notes describing the approach to measurement and the application of the general principles, work classifications and accompanying notes contained in the CESMM. The CESMM coding has been included in the worked examples for identification purposes.

The provisions in the ICE Conditions of Contract appertaining to measurement and financial aspects of contracts are examined in some detail together with the more significant consequences.

Finally, the various bill preparation processes are described and illustrated.

It is hoped that this new edition will serve the needs of practising civil engineers and quantity surveyors and students of these disciplines, in the measurement of this class of work, even more effectively than the previous editions.

Nottingham

IVOR H. SEELEY

Acknowledgements

The author expresses his thanks to The Institution of Civil Engineers for kind permission to quote from the *Civil Engineering Standard Method of Measurement* and the *General Conditions of Contract for use in connection with Works of Civil Engineering Construction*.

Some of the worked examples follow a similar pattern to those which the author prepared some years ago for the Ellis School of Architecture, Surveying and Building, London and Worcester.

Grateful thanks are also due to the publishers for abundant help and consideration during the production of the book.

Abbreviations

Will be found listed in Appendix I.

Subjects Illustrated by Examples

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