



Integrated Design and Cost Management for Civil Engineers

Andrew Whyte

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Find Practical Solutions to Civil Engineering Design and Cost Management Problems

A guide to successfully designing, estimating, and scheduling a civil engineering project, **Integrated Design and Cost Management for Civil Engineers** shows how practicing professionals can design fit-for-use solutions within established time frames and reliable budgets. This text combines technical compliance with practical solutions in relation to cost planning, estimating, time, and cost control. It incorporates solutions that are technically sound as well as cost effective and time efficient. It focuses on the integration of design and construction based on solid engineering foundations contained within a code of ethics, and navigates engineers through the complete process of project design, pricing, and tendering.

Well illustrated

The book uses cases studies to illustrate principles and processes. Although they center on Australasia and Southeast Asia, the principles are internationally relevant. The material details procedures that emphasize the correct quantification and planning of works, resulting in reliable cost and time predictions. It also works toward minimizing the risk of losing business through cost blowouts or losing profits through underestimation.

This Text Details the Quest for Practical Solutions That:

- Are cost effective
- Can be completed within a reasonable timeline
- Conform to relevant quality controls
- Are framed within appropriate contract documents
- Satisfy ethical professional procedures, and
- Address the client's brief through a structured approach to integrated design and cost management

Designed to help civil engineers develop and apply a multitude of skill bases, **Integrated Design and Cost Management for Civil Engineers** can aid them in maintaining relevancy in appropriate design justifications, guide work tasks, control costs, and structure project timelines. The book is an ideal link between a civil engineering course and practice.

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