PPG#6 CONSTRUCTION COST ESTIMATING, 3RD EDITION

Table of Contents

Introduction

Chapter 01: Recommended Practices


Chapter 02: Estimating Theory

1. Transforming Historical Project Data into Useful Information, Todd W. Pickett, CCC; Bruce G. Elliott, CCC, AACE Transactions, 2007
6. The Organization of an Estimating Department, Larry R. Dysert; Bruce G. Elliott, Cost Engineering Journal, 2000
Chapter 03: Order-of-Magnitude Estimating

4. Bid Preparation Using Cost Templates and Range Estimating - An Equipment Manufacturer's Perspective, Iqbal Noor, PE CCE; Matthew Grumo; Matthew W. Kniskern; Andrew Kopach, AACE Transactions, 2006
5. Improving Conceptual Cost Estimating Performance, Alfredo F. Serpell, AACE Transactions, 2005
7. Interactive Roadmap to Conceptual Cost Estimating, Christopher L. Kinney; Nathalie Soubiran, AACE Transactions, 2004
21. Square Foot Type Estimating for Construction, Steven F. Roney, CCC, AACE Transactions, 1992
22. Direct Range Cost Estimating, Dr. Paul F. Mlakar; Larry M. Bryant, AACE Transactions, 1990

Chapter 04: Estimating Factors and Indices

Chapter 05: Estimating Material Costs and Quantity Surveying

2. **Cost-Effective Reinforced Concrete Structural Systems**, Li Shengping; Robert Tiong, *AACE Transactions*, 2004
5. **An Efficient Quantity Takeoff Method for the Preliminary Design Phase**, Dr. Chansik Park; Seok-In Choi; Ki-Hong Kim, *AACE Transactions*, 1999

Chapter 06: Estimating Labor Costs

6. **Mechanical and General Construction Productivity Results**, James L. Jenkins; Daryl L. Orth, *Cost Engineering Journal*, 2004
Chapter 07: Estimating Equipment Costs

2. Owner-Furnished Equipment: Savings or Potential Claims?, Talal Abi-Karam, PE CCE, AACE Transactions, 2003
4. The Effect of Rising Petroleum Prices on the Construction Economy, Iftikhar K. Madni, CCE; David Raymond; Pat DiNapoli, Cost Engineering Journal, 2000
11. Replacement of Obsolete Equipment, R. A. Harris; Dr. D. J. Leech; Dr. R. G. Williams, AACE Transactions, 1992

Chapter 08: Subcontracting Costs

1. Subcontract Management Through a Bankruptcy, Retta M. Sandoval; Paul Edwards, PE; Michael Peek, AACE Transactions, 2005

Chapter 09: Estimating Overhead and Indirect Costs

Chapter 10: Profit, Contingencies, and Mark-Ups

7. **Contingency Misuse and Other Risk Management Pitfalls**, Iqbal Noor, PE CCE; Robert L. Tichacek, PE, *AACE Transactions*, 2004

**Chapter 11: Estimating International Construction Costs**

4. The Role and Application of Quotas, Yu Wen Wei, *AACE Transactions*, 2003
8. Location Factors for Southeast Asia, Kenichi Yoshihara; Shigeyasu Tametoh, *AACE Transactions*, 2001
15. IT and Quantity Surveying - The Australian Perspective, Peter V. Smith, *AACE Transactions*, 1998
18. Inter-American Construction Costs, Leopoldo G. Varela, CCE; Roger J. Grant, *AACE Transactions*, 1997
24. Construction Production Factors in International Areas, Dr. Enno Koehn; Chih-Shing Pan; Jen-Yuan Liu; Rana P. Pingili; Sirichai Tanratanawong, *AACE Transactions*, 1995
25. Construction Costs in the Former Soviet Union, Ram Dabadghav, PE, CCE, AACE Transactions, 1995
29. Developing Foreign Location Factors, BA Pietlock, Cost Engineering Journal, 1992

Chapter 12: Heavy Civil Project Estimating

2. Heavy Civil & Infrastructure WBS, Paul Martin Hewitt, AACE Transactions, 2006
4. Risk Analysis and Optimization of the (Un)Balanced Bid, Jon Hoogenboom, PE; W. Stephen Dale; Craig Martell, AACE Transactions, 2006
5. Estimating Problems in Heavy Construction Organizations, John Jeffrey Hannon, AACE Transactions, 2005
6. Risk Analysis In Transit Project, Jeffrey Allen; Ali Touran, PE, AACE Transactions, 2005
7. Competitive Bidding for Highway Construction Projects, Robert H. Harbuck, PE CCE, AACE Transactions, 2004
10. Warranty as a Real Option for DOT Projects, Qingbin Cui; Mehmet Emre Bayraktar; Makarand Hastak, CCE; Issam Minkarah, AACE Transactions, 2003
11. Cost Analysis of FRP Bridge Decks, Pratik Roychoudhury; Robert C. Creese, AACE Transactions, 2001
14. Preliminary Cost Estimation of Highway Construction Using Neural Networks, Hashem Al-Tatatabai; Alex P. Alex; Maha Tantash, Cost Engineering Journal, 1999
19. Cost Variations in Nighttime Construction, Ashish Kumar; Dr. Ralph D. Ellis, Jr., PE, AACE Transactions, 1994
Chapter 13: Estimating Specialty Projects

4. Concrete Corrosion, Methods to Control this Perennial Problem in the Middle East, Sam Mathew, CCE, Cost Engineering Journal, 2006
6. A Budget Estimating Method of Environmental Cost for Multiple Housing Projects, Chansik Park; Sungho Hong; Changwan Kim; Jaeho Lee, AACE Transactions, 2003
7. DOE Environmental Management Applied Cost Engineering Team, Richard A. Selg, CCE; Bryan Skoken, PE CCE, AACE Transactions, 2003
11. Parametric Cost Estimating for Environmental Remediation Projects, Jacqueline Rast, PE; Kate M. Peterson, PE, AACE Transactions, 1999

Chapter 14: Scheduling Input to the Estimate and Change Orders

1. Linking the Estimate, the Schedule and the Cost Control through a Standardized WBS, Marie-Helene Biffi, P.Eng., AACE Transactions, 2008
2. Assessing Project Schedule Risk with Contingent Tasks by Spreadsheet-Based Simulation, Li-Chung Chao; Sung-Lin Hsueh, Cost Engineering Journal, 2006
4. CPM Scheduling and How the Industry Views Its Use, Patricia D. Galloway, PE, AACE Transactions, 2005
5. Benefits of Linear Scheduling, Gary Rock Spencer, PE; Rose Mary Lewis, AACE Transactions, 2005
9. Improving Productivity With Short-Interval Scheduling, Walter J. Strutt, AACE Transactions, 2001

Chapter 15: Bidding Decisions

1. Automation of Pre-Bidding Process for Construction Projects, Rajesh Kandanala; Mohamed Al-Hussein; Aubrey Vanderstar, Cost Engineering Journal, 2005
2. Using Spreadsheets to Optimally Unbalance a Construction Bid, Khaled Nassar, Cost Engineering Journal, 2004
4. Bid Markup Methodologies, Dr. Kwaku A. Tenah; Dr. Carleton Coulter III, PE, Cost Engineering Journal, 1999

Chapter 16: Computer Applications to Construction Cost Estimating

2. The Use of 3-D Scanners for Automated Progress Reporting on Construction Activities, Osama El Sayed Moselhi, P.Eng.; Samir El-Omari, AACE Transactions, 2005
4. Best Value IT Procurement for Construction Organizations, Srinath Perera; Gayani Karunasena, AACE Transactions, 2004
5. Exploring Data to Detect Project Problems, Mark D. Steele, PE CCE; William A. Huber, AACE Transactions, 2004
8. Integrating CAD, Estimating, Scheduling, and Accounting, Philip D. Larson, AACE Transactions, 2001
9. Preliminary Cost Estimation of Highway Construction Using Neural Networks, Hashem Al-Tatatabai; Alex P. Alex; Maha Tantash, Cost Engineering Journal, 1999
13. Electronic Bidding: The Future is Now, William C. Epstein, PE; Dr. Ralph D. Ellis, Jr., PE, AACE Transactions, 1995

Chapter 17: Estimating Using Building Information Modeling


Chapter 18: Estimating Life-Cycle Costs


Author Index

Chronological Index

About the Editors