# Table of Contents

## Introduction to the Second Edition

## Introduction to the First Edition

### Chapter 01: Life-Cycle Cost Theory


### Chapter 02: Life-Cycle Cost Calculation Methods

Chapter 03: Determining Discount Rate
8. The Use of Commodity Futures in Estimating Long Range Construction Projects, Benjamin E. Lazar, AACE Transactions, 1977

Chapter 04: Estimating Capital Cost of Design and Construction
2. Project Estimate Reviews, Douglas W. Leo, CCC; Scott W. Knotowicz, CCC, AACE International Transactions, 2005
5. A Different Approach to Factored Cost Estimating, Kul B. Uppal, PE, AACE Transactions, 1993
6. Planning a Capital Project, DeWitt Patterson; James R. Uz, AACE Transactions, 1990

Chapter 05: Estimating Operations Costs
5. Expanded Facility Condition Assessment Becomes Strategic Facility Consulting, Michael D. Dell'Isola, PE FRICS; Benjamin Dutton, *AACE International Transactions*, 2010

Chapter 06: Estimating Salvage/Residual Value
1. Replacement of Obsolete Equipment, R. A. Harris; Dr. D. J. Leech; Dr. R. G. Williams, *AACE Transactions*, 1992
3. Project Material & Equipment Control (Conception to In-Service), W. C. Legrow; Mark Pakan, *AACE Transactions*, 1983

Chapter 07: Estimating Sustainability
Chapter 08: Life-Cycle Cost Risk Analysis

5. The Real Cost of Mitigating Delays, John J. Ciccarelli, PE CCE, AACE International Transactions, 2004
9. Linking Contractor Payments to Contractor Performance, Quentin W. Fleming; Joel M. Koppelman, AACE International Transactions, 1995

Chapter 09: Life-Cycle Cost Case Studies

2. Whole Life Cycle Cost for Chicago Type Bascule Bridge, Yingchun Zhang; David A. Novick, PE; Ahmad Hadavi, PE; Raymond J. Krizek, PE, Cost Engineering Journal, 2008
4. Implementing an Evms/Cost Controls System for FAA’s Tamr Program, Mark Walden; Rohit Iyer, AACE International Transactions, 2010
5. The Use of Historical Costs from the Rocky Flats Environmental Technology Site for Estimating Uncertainty for the Life-Cycle Cost of the US Department of Energy Environmental Management Program, Dan Melamed; Bryan Skokan, PE; Mathew Zenkowich; Dan Kocher, AACE International Transactions, 2007
6. New Nuclear Power Plants – Learning from History to Understand Costs and Mitigate Risks, George B. Bradshaw, PE CCE; Christopher O. Gruber, CCC, AACE International Transactions, 2007
8. The Economics of Geothermal Power, Laxmidas F. ("LV") Popat, CCE, AACE Transactions, 1982
9. Life Cycle Analysis for Power Industry, Dr. Yue-Chau Wong, AACE Transactions, 1979

Chapter 10: Life-Cycle Cost Analysis in the International Context
2. Project Planning and Scheduling and its Impact to Project Outcome: A Study of EPC Projects in Canada, Janaka Y. Ruwanpura; Tanveer Nabi Ahmed; Karim Kaba; Gerald Patrick Mulvany, AACE International Transactions, 2006
5. Assessment of the Problems of Application of Life Cycle Costing in Construction Projects, Sadi A. Assaf; Abdulmohsen Al-Hammad; Osama A. Jannadi; Sami Abu Saad, Cost Engineering Journal, 2002

Author Index

Chronological Index

About the Editors