



Engineering Economic and Cost Analysis (3rd Edition)

By Courtland A. Collier, Charles R. Glagola

[Download now](#)

[Read Online](#) 

Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola

Engineering Economic and Cost Analysis, by Courtland A. Collier and Charles R. Glagola, is especially written for practicing engineers and those studying to become engineers. The third edition reflects the recent changes that have taken place in the field of engineering economy and continues to present the subject matter in a straightforward and practical manner. This book will help engineering students prepare for real-world situations and provide professionals with a valuable tool for implementing cost analysis.

 [Download Engineering Economic and Cost Analysis \(3rd Editio ...pdf](#)

 [Read Online Engineering Economic and Cost Analysis \(3rd Edit ...pdf](#)

Engineering Economic and Cost Analysis (3rd Edition)

By Courtland A. Collier, Charles R. Glagola

Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola

Engineering Economic and Cost Analysis, by Courtland A. Collier and Charles R. Glagola, is especially written for practicing engineers and those studying to become engineers. The third edition reflects the recent changes that have taken place in the field of engineering economy and continues to present the subject matter in a straightforward and practical manner. This book will help engineering students prepare for real-world situations and provide professionals with a valuable tool for implementing cost analysis.

Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola
Bibliography

- Sales Rank: #1592379 in Books
- Published on: 1998-08-20
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x 1.70" w x 6.40" l, 2.35 pounds
- Binding: Paperback
- 712 pages

 [Download Engineering Economic and Cost Analysis \(3rd Editio ...pdf](#)

 [Read Online Engineering Economic and Cost Analysis \(3rd Edit ...pdf](#)

**Download and Read Free Online Engineering Economic and Cost Analysis (3rd Edition) By
Courtland A. Collier, Charles R. Glagola**

Editorial Review

From the Inside Flap

This text is especially designed for those engineering students and professional practitioners who are new to the study of engineering economics. The language, explanations, examples, and illustrative figures are carefully selected to present the subject matter in a straightforward manner that will enable the reader to comprehend and use the material in the solution of practical everyday problems. In so doing, we have included 215 illustrative figures, 170 example problems fully worked and explained, together with 9 problems available for homework assignment or practice. About one-half of these problems have answers included with the problem. Solutions to all the problems are available to the teaching faculty in the Solutions Manual available from the publisher.

This third edition is in response to the enthusiastic reception afforded the previous edition which were adopted as a practice-oriented text in many colleges and universities around the nation. The authors gratefully appreciate these adoptions and wishes to thank all of those who made it possible.

NEW TO THIS EDITION

As in most professional subject areas, the scope of applications of engineering economy is widening continually, and this third edition has been updated to reflect many of these new applications. The first six chapters, which deal with an introduction to time-value-of-money concepts, are broadened with updated samples and homework problems. Since there is usually a choice of alternative courses of action, Chapters 7 through 14 demonstrate a variety of basic methods for comparing alternative proposals.

To deal competently with private-sector cost analysis problems the income tax consequences must be taken into account. Therefore, Chapter 15 begins a series of chapters dealing with a variety of after-tax situations likely to be encountered by the practicing engineer. The authors realize that engineering students and practitioners may not be working with a familiar subject area when they consider tax matters. Therefore, these chapters are written carefully in language familiar to engineers. This third edition has been updated to reflect the current Tax Reform Act. In addition to the new features of the act, other traditional features of tax law are included, both for a sense of historical perspective, as well as in anticipation that many of these traditional features likely will be reintroduced into U.S. tax law within the foreseeable future. Chapters 18 and 19 explain how to determine the profitability of investments involving real estate, when to sell, and when to keep. The text is well illustrated with specific examples. Chapter 20 presents straightforward solutions to the problems of determining the optimum replacement time for a currently owned piece of equipment, and what sort of life-cycle time to expect from the replacement equipment.

Since computers are readily available to both students and professional practitioners, several examples of spread sheet programs have been included to facilitate problem solving.

Chapter 21 on double gradients contains updated material dealing with escalating cost which is an often overlooked problem area that has frustrated engineers for many years. For example, in doing a cost analysis of an excavator, when the productivity (in cubic yards per hour) is decreasing with age, but the price of the excavation (in dollars per cubic yard) is also changing with time, the double gradient can eliminate potentially significant errors that are inherent in older methods of solution.

ACKNOWLEDGMENTS

As in previous editions the authors again acknowledge with deep gratitude the very helpful input to this text from alert, inquiring students, as well as conscientious faculty and professional practitioners. Those of you who have worked seemingly endless hours on favorite projects know that endeavors like this are made possible in large part by the patience and loving support of wife and family to whom we owe so much in helping bring this edition to fruition. A sincere word of thanks is due also to the understanding and hardworking editor and staff at Addison-Wesley Longman

Courtland A. Collier Charles R. Glagola

From the Back Cover

Engineering Economic and Cost Analysis, by Courtland A. Collier and Charles R. Glagola, is especially written for practicing engineers and those studying to become engineers. The third edition reflects the recent changes that have taken place in the field of engineering economy and continues to present the subject matter in a straightforward and practical manner. This book will help engineering students prepare for real-world situations and provide professionals with a valuable tool for how to implement cost analysis.

Features:

- Addresses important concepts in civil engineering practice with numerous worked examples
- Provides a logical development of economic analysis principles in the first six chapters
- Promotes understanding of the relationship between time and money by providing numerous cash flow diagrams
- Covers advanced topics like equipment replacement and double gradients in more depth than competing books

New to the Third Edition:

- Contains 165 revised examples and additional cash flow diagrams to provide greater opportunity for appreciating economic principles in practice
- Offers worked spreadsheet examples that allow readers to work problems with both conventional and computer methods
- Provides updated information for current tax laws

About the Author

Dr. Glagola is currently an assistant professor in the Department of Civil Engineering, at the University of Florida in Gainesville, specializing in the area of Construction Engineering and Management. Research interests include: cost engineering, value engineering, total quality management, innovative contracting methods and engineering education. Dr. Glagola has been heavily involved in the curriculum innovation and renewal process at the local and national levels and has been working with the Southeast University and College Coalition for Engineering Education (SUCCEED). Other projects include innovative contracting methods and quality control for the Florida Department of Transportation (FDOT). He has published articles in the Journal of Construction of the American Society of Civil Engineers, Journal of Science and Engineering Ethics, and has presented papers at national meetings of the American Society of Engineering Education and the Transportation Research Board.

Dr. Glagola is a member of the American Society of Civil Engineers, the American Society for Quality

Control, the American Society for Engineering Education as well as other professional organizations. He belongs to Chi Epsilon, the national civil engineering honorary, and Tau Beta Pi, the national engineering honorary. Dr. Glagola is actively involved with student organizations, serving as an advisor to the student chapter of the American Society of Civil Engineers. In his student related activities, Dr. Glagola teaches the engineering economy review course for the Fundamentals of Engineering (FE) exam which is a graduation requirement for civil engineering students at the University of Florida.

Users Review

From reader reviews:

Carl Carrillo:

Have you spare time for any day? What do you do when you have a lot more or little spare time? Yes, you can choose the suitable activity for spend your time. Any person spent their particular spare time to take a stroll, shopping, or went to typically the Mall. How about open or maybe read a book allowed Engineering Economic and Cost Analysis (3rd Edition)? Maybe it is to get best activity for you. You know beside you can spend your time with your favorite's book, you can cleverer than before. Do you agree with it is opinion or you have various other opinion?

Mary Flynn:

In this 21st centuries, people become competitive in most way. By being competitive at this point, people have do something to make these individuals survives, being in the middle of the particular crowded place and notice by means of surrounding. One thing that at times many people have underestimated the idea for a while is reading. Sure, by reading a guide your ability to survive improve then having chance to stay than other is high. For yourself who want to start reading the book, we give you this specific Engineering Economic and Cost Analysis (3rd Edition) book as nice and daily reading publication. Why, because this book is more than just a book.

Terri Brown:

In this era globalization it is important to someone to get information. The information will make someone to understand the condition of the world. The fitness of the world makes the information quicker to share. You can find a lot of personal references to get information example: internet, magazine, book, and soon. You can observe that now, a lot of publisher in which print many kinds of book. Often the book that recommended to you is Engineering Economic and Cost Analysis (3rd Edition) this reserve consist a lot of the information from the condition of this world now. This particular book was represented how does the world has grown up. The words styles that writer value to explain it is easy to understand. Often the writer made some study when he makes this book. Honestly, that is why this book acceptable all of you.

Peggy Young:

Don't be worry should you be afraid that this book will certainly filled the space in your house, you could have it in e-book way, more simple and reachable. This specific Engineering Economic and Cost Analysis

(3rd Edition) can give you a lot of pals because by you taking a look at this one book you have issue that they don't and make an individual more like an interesting person. This book can be one of a step for you to get success. This e-book offer you information that maybe your friend doesn't understand, by knowing more than other make you to be great individuals. So , why hesitate? Let's have Engineering Economic and Cost Analysis (3rd Edition).

Download and Read Online Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola #4INT8PROQM2

Read Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola for online ebook

Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola books to read online.

Online Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola ebook PDF download

Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola Doc

Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola MobiPocket

Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola EPub

4INT8PROQM2: Engineering Economic and Cost Analysis (3rd Edition) By Courtland A. Collier, Charles R. Glagola