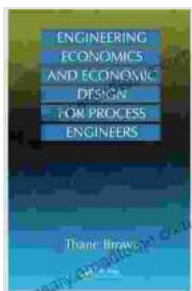


# Engineering Economics and Economic Design for Process Engineers: Unlocking the Secrets to Profitable Process Design

As a process engineer, you play a pivotal role in designing and optimizing industrial processes to ensure efficiency, safety, and profitability.

Engineering economics and economic design are essential tools that empower you to make informed decisions, maximize returns, and minimize risks throughout the process design lifecycle.



## Engineering Economics and Economic Design for Process Engineers by Thane Brown

★★★★★ 5 out of 5

Language : English

File size : 12341 KB

Print length : 368 pages



This comprehensive book, "Engineering Economics and Economic Design for Process Engineers", provides a thorough and practical guide to these critical concepts. Through detailed explanations, real-world examples, and hands-on exercises, you will gain a deep understanding of the principles and applications of engineering economics and economic design.

### Key Features

- **In-depth Coverage of Core Principles:** Comprehensive explanations of time value of money, interest rate, depreciation, cash flow analysis,

and capital budgeting.

- **Economic Design Optimization:** Learn how to apply engineering economics to design processes that minimize investment costs and maximize operating profitability.
- **Capital Project Evaluation:** Step-by-step guidance on evaluating capital projects, including feasibility studies, economic analysis, and risk assessment.
- **Real-World Case Studies:** Practical examples and case studies demonstrate the application of engineering economics and economic design in actual process design scenarios.
- **Hands-On Exercises and Solutions:** Interactive exercises and detailed solutions reinforce understanding and prepare you for real-world applications.

## Benefits of Reading This Book

By mastering the concepts and techniques presented in this book, process engineers will gain:

- **Enhanced Decision-Making Ability:** Understand the financial and economic implications of process design decisions.
- **Optimized Capital Investments:** Maximize returns on capital projects by evaluating and selecting the most economically viable options.
- **Increased Process Efficiency:** Apply economic design principles to create processes with minimal operating costs and maximum productivity.

- **Risk Management:** Learn how to assess and mitigate financial and technical risks associated with process design.
- **Career Advancement:** Position yourself as a highly valuable asset with advanced expertise in engineering economics and economic design.

## **Who Should Read This Book?**

This book is essential reading for process engineers at all levels, from aspiring professionals to experienced leaders. It is also a valuable resource for:

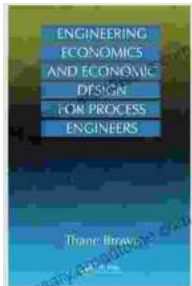
- Chemical Engineers
- Mechanical Engineers
- Process Design Engineers
- Plant Managers
- Project Engineers
- MBA Students
- Anyone involved in capital project evaluation and decision-making

## **About the Author**

The author of "Engineering Economics and Economic Design for Process Engineers" is a highly accomplished process engineer with over 20 years of experience in the industry. With a proven track record of successful process design and optimization projects, the author shares his expertise and insights through this comprehensive guide.

Available in print and digital formats, this book is a must-have resource for process engineers seeking to advance their careers and empower themselves to design profitable and efficient processes.

Free Download your copy today and unlock the secrets to successful engineering economics and economic design!



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