



# Engineering Economics - BENEFIT COST ANALYSIS

EX:

YEAR	DIFFERENCE		
	A	B	B-A
0	-100,000	-140,000	40,000
1	25,000	42,000	17,000
2	25,000	42,000	17,000
3	25,000	42,000	17,000

CONCLUSION:

- IF  $\frac{B}{C} \geq 1$ , HIGHER COST ALTERNATIVE
- IF  $\frac{B}{C} < 1$ , LOWER COST ALTERNATIVE

NOTE: 11. WHICH ALTERNATIVE SHOULD BE CHOSEN?

GOAL: WHICH ALTERNATIVE IS MOST BENEFICIAL?

BENEFIT COST ANALYSIS ON DIFFERENCE IN CASH FLOW

DIFFERENCE CASH FLOW  $\Rightarrow$  HIGHER INITIAL COST - LOWER INITIAL COST

EXPLANATION ON PG. 115 OF NCEES MANUAL

BENEFIT/COST RATIO  $\Rightarrow$

$$\frac{B}{C} = \frac{PW \text{ BENEFITS}}{PW \text{ COSTS}}$$

# Engineering Economic And Cost Analysis

**Yicheng Fang**



## **Engineering Economic And Cost Analysis:**

Engineering Economic and Cost Analysis Courtland A. Collier, Charles R. Glagola, 1998 Engineering Economic and Cost Analysis is a practical introduction for those engineering students and professional practitioners who are new to the study of engineering economics Engineering Economics of Life Cycle Cost Analysis John Vail Farr, Isaac J. Faber, 2023-06-30 The rise of the information age and the digital economy has dramatically changed engineering and other technology driven fields With tremendous advances in computing and communication systems major organizational upheavals all fueled by complexity globalization short cycle times and lean supply chains the functions of engineers have significantly changed Engineers and similar professionals must be technically savvy and have product management and costing skills all while working in a distributed and often unstable environment This new edition textbook is updated to cover the integration of cost risk value scheduling and information technologies going beyond basic engineering economics Engineering Economics of Life Cycle Cost Analysis Second Edition offers a systems and life cycle or total ownership cost perspective It presents advanced costing techniques such as simulation based costing decision and risk analysis complex systems costing software big data and cloud computing estimation Examples and problems demonstrating these techniques with real world applications are also included All engineers and similar professionals will find this book useful but it is mainly written for systems engineers engineering managers program product managers and industrial engineers The text can serve as a professional reference or for use with graduate courses on advanced engineering economic analysis and cost management and financial analysis for engineers

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allocation under risk and uncertainty Current theory of economics and finance is also discussed and the text is complemented by a full set of problems exercises and case studies

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**Engineering Economics and Costing** KK Patra | Dhiraj Bhattacharjee, Salient Features of the Book Simple and lucid language Sequential arrangement of topics Review question after each chapter Interest calculation table Straight answers to 101 nagging questions

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