

# Download File PDF Solution Manual For Engineering Economic Analysis 11th Edition

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so many fake sites. this is the first one which worked! Many thanks

## SOLUTIONS TO SELECTED PROBLEMS

Student: You should work the problem completely before referring to the solution.

### CHAPTER 1

Solutions included for problems 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, and 49

- 1.1 Time value of money means that there is a certain worth in having money and the worth changes as a function of time.
- 1.4 Nearest, tastiest, quickest, cheapest, most scenic, etc.
- 1.7 Minimum attractive rate of return is the lowest rate of return (interest rate) that companies or individuals consider to be high enough to induce them to invest their money.
- 1.10 Rate of increase =  $\frac{29 - 22}{22} \times 100 = 31.8\%$
- 1.13 Profit = 8 million  $\times 0.28 = \$2,240,000$
- 1.16 (a) Equivalent future amount =  $10,000 + 10,000(0.08) = 10,000(1 + 0.08) = \$10,800$
- (b) Equivalent present amount:  $P = \frac{10,000}{1.08} = 9,259.26$
- 1.19  $80,000 + 80,000(i) = 100,000$   
 $i = 25\%$
- 1.22 Simple:  $1,000,000 = 500,000 + 500,000(1.5)$   
 $i = 20\%$  per year simple
- Compound:  $1,000,000 = 500,000(1 + i)^2$   
 $(1 + i)^2 = 2,000,000$   
 $(1 + i) = \sqrt{2,000,000}$   
 $i = 14.87\%$
- 1.25 Plan 1: Interest paid each year =  $800,000(0.10) = \$80,000$

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