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EECE 450 — Engineering Economics — Formula Sheet

Engineering Economics 4-2b Discount Factors and Equivalence

Example (FEIM): How much should be put in an investment with a 10% effective annual rate today to have \$10,000 in five years?

Using the formula in the factor conversion table, $P = F(1 + i)^{-n}$

$(\$10,000)(1 + 0.1)^{-5} = \6209 Or using the factor table for 10%,
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Engineering Economics Formulas Excel $NPV = F / [(1 + r)^n]$ where, PV = Present Value, F = Future payment (cash flow), r = Discount rate, n = the number of periods in the future. — calculates the net present value of cash flows based on a discount rate. =XNPV — calculates the NPV of cash flows based on a discount rate and specific dates.

FE Reference 8-2.1104web

RATE (n,A,P,F,Type,guess) Where: i = interest. n = number of periods. A = Annual Value (or Worth) P = Present Value (or Worth) F = Future Value (or

Worth) Type: 0 or omitted means calculations are at the end of the period; 1 means calculations are at the beginning of the period.

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DEPARTMENT OF MECHANICAL ENGINEERING MG 6863

ENGINEERING ECONOMICS FORMULA SHEET UNIT II Notations

used: P = Principle amount F = Future amount at the end of the year ' n '

n = Number of interest periods i = Interest rate A = Equal amount deposited at the end of every interest period G = Uniform amount which will be added/subtracted period ...

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ENGINEERING ECONOMICS 115 DEPRECIATION Straight Line D n

CS j = - n Accelerated Cost Recovery System (ACRS) Dj = (factor) C ~ ~

! " Sum of the Years Digits D j n j CS 1 j j n n 1 = +--= _i! BOOK

VALUE BV = initial cost - Dj TAXATION # \$ \$ ~ ~ " Taxable

income is total income less depreciation and

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Engineering Economics Formulas Excel EECE 450 — Engineering

Economics — Formula Sheet Cost Indexes: Index valu e at time B Index

valu e at time A Cost at time B Cost at time A = Power sizing: power -sizing

exponent Size (capacity) of asset B Size (capacity) of asset A Cost of asset B

Cost of asset A = = x x Learning Curve: learning curve exponent

Engineering Economics Formulas Excel

A very useful course on engineering economics and the tools to use in excel. Very informative and helpful, and the write-up/text is easy to follow. I recommend this for any engineer looking to brush up on engineering economics.

Engineering Economics Formulas Excel

Engineering Economics. Enter Interest Rate: (as a percentage) Enter

the period: (in years) Enter a value for F,P,A,or Ghere: Choose ONE

formula from the following list. Single Payment Compound Amount.

Single Payment Present Worth. Uniform Series Sinking Fund. Capital

Recovery.

Engineering Economic Calculator

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EECE 450 — Engineering Economics — Formula Sheet Cost Indexes:

Index valu e at time B Index valu e at time A Cost at time B Cost at time A =

Power sizing: power -sizing exponent Size (capacity) of asset B Size (capacity)

of asset A Cost of asset B Cost of asset A = = x x Learning Curve: learning

curve exponent

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Value || Internal Rate of Return Calculating Present, Future,

Equivalent Worth using Excel Lecture (Analysis Using the Excel

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~~Make a choice table for three Cash flow alternatives in Excel~~

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Spreadsheets for economic analysis

More Interest Formulas . Arithmetic Gradient Series Go to questions covering topic below. Suppose that there is a series of "n" payments uniformly spaced but differing from one period to the next by a constant. The change or "gradient" from one period to the next is denoted "G." Let A₁ be the payment at EOY 1. EOY = End of year. NCF = Net Cash ...

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A = An end-of-period cash receipt or disbursement in a uniform series continuing for n periods. G = Uniform period-by-period increase or decrease in cash receipts or disbursements. g = Uniform rate of cash flow increase or decrease from period to period; the geometric gradient. r = Nominal interest rate per interest period.