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## **Engineering Economics Formulas Excel**

The field of engineering economics, formerly known as engineering economy, estimates the costs and potential savings of proposals, and then determines if the proposal makes "money- ... Show how to calculate the above with simple Excel formulas. 5. Through illustrations, identify the subtleties of what each measure indicates, and explain which ...

## **Engineering Economics Made Easier with MS Excel**

Engineering economics is not easy. But after completing this course, you should be able to see how Excel can make it

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"easier". The FREE Microsoft Excel® spreadsheet that accompanies this course will be available for download after purchase.

## **Engineering Economics Made Easier with MS Excel**

Excel Spreadsheet Exercises for Engineering Economy. William G. Sullivan. Elin M Wicks, Abacus Accounting, LLC. C Patrick Koelling, Virginia Polytechnic Institute and State University

## **Excel Spreadsheet Exercises for Engineering Economy**

EECE 450 — Engineering Economics — Formula Sheet  
Cost Index: Index value at time B / Index value 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 =  $x \times$  Learning Curve: learning curve exponent

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## **EECE 450 — Engineering Economics — Formula Sheet**

Appendix A also includes a section on spreadsheet layout that is useful when the economic analysis is presented to someone else—a coworker, a boss, or a professor. A total of seven Excel functions can perform most of the fundamental engineering economy calculations.

### **ENGINEERING ECONOMIC ANALYSIS.: Engineering Economics ...**

$i$  = 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. Guess is  
an initial starting point for a possible interest rate.

### **Spreadsheets for economic analysis**

Excel has several financial functions that are always available

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when Excel is loaded. The figure below shows part of the Financial Functions list. The list is accessed through the Insert/Function menu item or the insert function icon on the Standard Toolbar. The PV, NPV, FV and PMT functions are useful for computing equivalent values.

## Engineering Finance - Computation

ENGINEERING ECONOMICS 115 DEPRECIATION Straight Line  $D_n = \frac{C - S}{n}$   
Accelerated Cost Recovery System (ACRS)  $D_j = \frac{C}{n} \times \text{factor}$   
Sum of the Years Digits  $D_j = \frac{C - S}{\sum_{j=1}^n j} \times j$   
BOOK VALUE  $BV = \text{initial cost} - \sum D_j$   
TAXATION # Taxable income is total income less depreciation and

## FE Reference 8-2.1104web

Engineering Economics 4-1 Cash Flow Cash flow is the sum of money recorded as receipts or disbursements in a project's financial records. A cash flow diagram presents the flow of cash

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as arrows on a time line scaled to the magnitude of the cash flow, where expenses are down arrows and receipts are up arrows. Year-end convention ~ expenses

## **Engineering Economics 4-1 - valpo.edu**

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**

Read on for information about the use of a time value of money Excel spreadsheet. Time value of money formulas—present worth, future worth, equivalent cash flow, and so on—are essential tools for engineering and financial analysts concerned with calculating the costs and benefits of multi-year investments.

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## **Time Value of Money Excel Spreadsheet for Engineering**

...

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## **Engineering Economics Unit 1-5 Formulas | Depreciation**

...

"Not just another textbook on engineering economics..." Merwan Mehta's Applied Engineering Economics Using Excel is one of the most innovative textbooks for teaching the fundamentals of engineering economics. Written clearly and concisely to allow a firm grasp of the concepts, this is a noncalculus-based book geared toward teaching undergraduate and graduate students with a wide range of ...

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## **Applied Engineering Economics Using Excel by Merwan Mehta ...**

Excel Skills For Economics Majors: What You'll Need On The Job. ... Use an Excel formula. At some point in the future, you'll want to know how you got the number. Even worse, you may have ...

## **Excel Skills For Economics Majors: What You'll Need On The Job**

Excel Spreadsheet Basics for Engineers. Robert B. Wilcox, P.E. Course Outline. This course will cover spreadsheet based analysis for general purpose engineering use. It will focus on using basic calculations, formulas and graphs within Microsoft Excel <sup>™</sup>.

## **Excel Spreadsheet Basics for Engineers - a PDH Online ...**

In the following video tutorial we will use Excel to calculate the present, future, and equivalent worth for a series of year-end



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cash flows which will extend over a period of  $n$  years (this case 8  
...

## **Calculating Present, Future, Equivalent Worth using Excel**

Engineering economics - cash flow diagrams, present value, discount rates, internal rates of return - IRR, income taxes, inflation . Sponsored Links . ... Compounding formulas for discrete payments. Income Taxes . Taxable income and income taxes. Inflation Rate . Inflation and future value. Interest Formulas .

## **Economics - Engineering ToolBox**

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  $A_1$  be the payment at EOY

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1. EOY = End of year. NCF = Net Cash ...

## **Arithmetic Gradient Series**

EECE 450 — Engineering Economics — Formula Sheet  
time B  
Index value 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

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