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Simple Economic
Analysis

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Problem Find

Monthly, Nominal

and Effective

interest rates -

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Structural

Analysis and

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| Example #1 On

Future Worth

Method

Depreciation:

Definition,

Reasons, Types

of property,

Value time

function and

book value FE

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Economic

Analysis -

Gradient Series

#58 -

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| Example #1 on

Rate of Return

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Analysis - Cash

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Flow Diagram #90

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*| Example #1 on
Benefit to Cost
Ratio ~~Time value
of money |
Interest and
debt | Finance
& Capital
Markets | Khan
Academy Net
Present Value
Explained in~~*

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*Economic
Examples
Analysis -*

Nominal \u0026

Effective

Interest Rates

Present Value

and Annual Worth

~~*E10(d) :*~~

~~*Geometric*~~

~~*Gradient*~~

~~*(negative*~~

~~*growth) NPV*~~

~~*Net Present*~~

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~~Value, IRR~~

~~Internal Rate of
Return, Payback~~

~~Period. Benefit~~

~~Cost Analysis 3~~

~~7 External Rate
of Return~~

~~Shifted Series~~

Problem Solving

Techniques #7:

Cost-Benefit

Analysis

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Compound
~~Examples~~
~~Interest Rate~~

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Equivalence
Present Worth -
Fundamentals of
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Incremental Rate
of Return
Analysis -

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calculations and
Excel

Uniform Gradient
Payment Formulas
- Fundamentals
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license. Some
other topics
that may be
addressed in
engineering
economics are
inflation,
uncertainty,
replacements,
depreciation,
resource
depletion,
taxes, tax
credits,

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accounting, cost
estimations, or
capital
financing. From.
Wikipedia.

~~engineering~~

~~economics +~~

~~Example~~

~~sentences~~

Engineers may

also use

economics to

calculate

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depreciation of value. For example, they could calculate the value of a tool that a company is considering purchasing. Methods for calculating depreciation include book value, straight-

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line
depreciation,
Examples
and accelerated
cost recovery
system. All
disciplines of
engineering
employ
engineering
economics.

~~What is
Engineering
Economics? (with~~

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~~pictures)~~

Engineering
Economics 4-11d

Additional

Examples Example

4 (FEIM): A loan of \$10,000 is made today at an interest rate of 15%, and the first payment of \$3000 is made 4 years later. The amount that is

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still due on the
loan after the
first payment is

most nearly (A)

\$7000 (B) \$8050

(C) \$8500 (D)

\$14,500 loan

due= (\$10k) (F/P,

15%, 4) - \$3000

~~Engineering~~

~~Economics 4-1~~

~~Valparaiso~~

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SOME EXAMPLES

Let us present
few examples in
different
environments
where
engineering
economy can
facilitate the
decision making
process. •

Business

Environment: A
small

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manufacturing

Examples
company needs to
buy a forklift

truck for

material

handling. Two

different

brands, say A

and B, are being

considered.

~~Engineering~~

~~Economy~~

~~SlideShare~~

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Following are
some examples
where

engineering
economy plays a
crucial role:
Choosing the
best design for
a high-
efficiency gas
furnace

Selecting the
most suitable
robot for a

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welding
Economics

operation on an
Examples
automotive

assembly line

Making a

recommendation

about whether

jet airplanes

for an overnight

delivery service

should be

purchased or

leased

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~~Introduction to
Engineering
Economics~~

engineering
economics is
that money
generates money.
You cannot
compare \$10.00
today to \$10.00
a year from now
without
adjusting for
the investment

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potential. A simple example would be to take the \$10.00 and put it in a savings account at 2% interests. After a year you have \$10.20 instead of \$10.00.

~~Engineering~~
~~Economics — Tech~~

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1. Engineering Economics is closely aligned with Conventional Micro-Economics.
2. Engineering Economics is devoted to the problem solving and decision making at the operations level.
- 3.

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Engineering

Economics can

lead to sub-

optimisation of

conditions in

which a solution

satisfies

tactical

objectives at

the expense of

strategic

effectiveness.

4.

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~~Engineering~~

~~Economics:~~

~~Meaning and~~

~~Characteristics~~

Example: •

Given: $F =$

$\$5,000$, $N = 5$

years, and $i =$

7% •Find: A •

Solution: $A =$

$\$5,000 (A/F, 7\%, 5)$

$= \$869.50$

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~~Economics Topics~~

~~on PE Exams~~

~~Engineering~~

Economy Lectures-

solved examples

and problems

-Introduction

... in all

calculations of

economics and

engineering to

be ... This

study

investigates the

Download Free Engineering Economic feasibility of producing ...

~~(PDF)~~

~~Engineering~~

~~Economy Lectures~~

~~solved examples~~

~~and ...~~

For our sample

CFD. - The

expected rate of

return (cost of

capital) is 10%

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The present

value of $C(0)$:

$$PV[C(0)] = -\$10M$$

- The present

value of $C(3)$:

$$PV[C(3)] =$$

$$7 / (1+10\%)^3 =$$

$\$5.23M$ - The net

present value of

the project:

$$\text{SUM}\{PV[C(i)]\} =$$

$\$6.74M$ - Project

accepted! 4.

PAYBACK PERIOD.

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~~Lecture — MIT~~

~~OpenCourseWare~~

8 PDA 2001

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Problems Econ 07

A lift station

sewage pump

initially costs

\$20,000. Annual

maintenance

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Examples
costs are \$300.

The pump salvage value is 10

percent of the initial cost in 20 years. Using 4% interest, the annual cost of the pump is most nearly: (A)

\$1,200 (B) \$1,705

(C) \$1,772 (D)

\$1,840 Econ 08

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~~ENGINEERING
ECONOMICS
PROBLEM TITLES~~

Some examples of engineering economic problems range from value analysis to economic studies. Each of these is relevant in different

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situations, and most often used by engineers or project managers. For example, engineering economic analysis helps a company not only determine the difference between fixed and incremental

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~~Economics~~
~~Examples~~
costs of certain operations, but also calculates that cost, depending upon a number of variables.

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~~economics~~

~~Wikipedia~~

Cash Flow•

Engineering
projects

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Examples
generally have economic consequences that occur over an extended period of time - For example, if an expensive piece of machinery is installed in a plant were brought on credit, the

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simple process
of paying for it
may take several
years - The
resulting
favorable
consequences may
last as long as
the equipment
performs its
useful function.
Each project is
described as
cash receipts or

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disbursements
(expenses) at
different points
in time 5

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~~economics~~
~~SlideShare~~

What is
Engineering
economics?
Engineering
economics is the
application of

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Engineering

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Examples
techniques to
the evaluation

of design and
engineering
alternatives.

The role of
engineering
economics is to
assess the
appropriateness
of a given
project,
estimate its

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value, and
justify it from
Examples
an engineering
standpoint.

Engineering
economics,
previously known
as engineering
economy, is a
subset of
economics ...

~~Engineering~~
~~Economics~~ †

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~~AboutCivil.Org~~

Engineering

Economics

Examples

Engineering

Economics 4-11c

Additional

Examples Example

3 (FEIM): It

costs \$1000 for

hand tools and

\$1.50 labor per

unit to

manufacture a

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product. Another alternative is to manufacture the product by an automated process that costs \$15,000, with a \$0.50 per-unit cost. With an annual production rate of 5000

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~~Examples~~

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Economic

Analysis: Slide

3 Example:

Comparing

Alternatives

• Simple payback:

- Site B is

preferred after

5 years

(\$500,000 ?

\$250,000) ?

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67 months \$3,750/
month

Examples

- Considering reasonable business assumptions (15% discount rate) – Site B is preferred after > 12 years How do we come up with such a difference? ...

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Economics MIT
OpenCourseWare~~

For example,
potential
economic
alternatives for
an out-of-date
computer network
might include
updating the
current system
or building a
new system from

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Examples
from scratch. During this process you might analyze how each alternative will affect the cost, expected performance and useful lifetime of the system to decide which alternative will provide the most value to the

Download Free Engineering Economics company.

Examples

~~Principles of
Engineering
Economics +
Career Trend~~

Suggested Citation:
"Chapter Three - Case Examples."
National Academies of Sciences,
Engineering, and Medicine. 2012.

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Practices for

Highway

Investment.

~~Chapter Three~~

~~Case Examples~~

~~Engineering~~

~~Economic ...~~

There are enough

examples in the

development

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fields of

economics

Examples
analysis. Many projects seem to be technically feasible but economically infeasible and are discarded too. The economics terms like returning rate are extremely

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important in
civil
Examples
engineering.

Civil engineers
are meant to
design a safe,
efficient as
well as economic
design.

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4b16d0c6e35da1a3
8ae98c96360a9ea4

Examples