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Method - Deflection
of Beam

(Mechanical/Civil) -

GATE/IES Electrical

#2: Electrical Enginee
ring/Technology

Important

Formulas_Part 1 of 3

POWER EQUATION P

= $2 \pi n t / 60$ - Why

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? Learn with

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Formula Basic

Definitions Important

Formulas For

Geotechnical

Engineering 1 Gate

2020 | Mechanical

Engineering |

Revision | Formula |

Most Important

Questions (Lec 1)

Basic Engineering

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Engineering Formula
Sheet. Probability.

Conditional

Probability. Binomial
Probability (order
doesn't matter) P.

k (= binomial

probability of k

successes in n trials p

= probability of a

success $-p =$

probability of failure

$k =$ number of

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Formulas
Successes n = number of trials. Independent Events. $P(A \text{ and } B \text{ and } C) = P(A)$.

Engineering Formula Sheet

$$Z = \sqrt{R^2 + XL^2} \quad Z = \sqrt{R^2 + XC^2} \quad Z = \sqrt{R^2 + (XL - XC)^2}$$

Basic Electrical Engineering Formulas and Equations

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Formulas (gears & belts), mechanical power (torque, horsepower & speed), IC engines, thermal, fluid, force, velocity ...

Mechanical Engineering Formulas - PDF Download

q = heat transferred per unit time (W, Btu/hr) A = heat transfer area of the

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surface (m², ft²) h c
= convective heat transfer coefficient of the process (W/ (m² K) or W/ (m²o C), Btu/ (ft² h...

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Angular acceleration
Apparent power
Average load Battery
capacity Capacitive
reactance Chopping
current Conductance
Coulomb Current
Current in AC circuits
[Single phase]
Current in AC circuits
...

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Formulas - Basics of ...

Engineering Practice

1 Chapter 2. Beam

Formulas 1 1

Continuous Beams /

11 Ultimate Strength

of Continuous Beams

/ 46 Beams of

Uniform Strength /

52 Safe Loads for

Beams of Various

Types / 53 Rolling

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72 Unsymmetrical
Bending / 73
Eccentric Loading /
73

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civil engineering
Basic Mechanical

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Engineering Formulas

List. All. Beams

Deflection of Round
Tube. Beam

Deflection of Solid
Rectangular. Beam

Deflection of Solid
Round. Aviation

Gasoline Fuel

Consumption.

Potential Flight Time.

Trip Fuel

Consumption. Push /

Pull Hydraulic

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Phase AC Power Two
Phase AC Power
Three Phase AC
Power DC Power

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Power Factor Torque
to Horsepower (hp)
Horsepower (hp) to
Torque Equivalent
Resistance - Series &
Parallel Circuit
Equivalent
Capacitance - Series &
Parallel Circuit
Equivalent ...

Electrical &
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Formulas and Basic

Circuits Author: X

Subject: Electronics

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Circuits

Electric energy is
power multiplied with
time: $W = P t$ (5)

where. W = energy
(Ws, J) t = time (s)

Alternative - power

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Formulas can be expressed. $P = W / t$ (5b) Power is consumption of energy by consumption of time.

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Engineering ToolBox
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Kirchhoff ' s &

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mathematical terms
are important to solve
all numerical

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quantitative aptitude
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list and important
basic terms with

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detailed explanation
with proper
Drawings. This
formulas Hnadbook is
also important for
GATE examination
students.

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your preparations for

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Program Compressor

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Performance Program

Hydraulics

Calculation Program

TEG Dehydration

Valve Program Vessel

Volume Calculation

Program.

Miscellaneous.

Linking Fortran DLL

to Excel Visual Basic

Entrainment. Non

Engineering ...

Process Engineering

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oilgasprocessing.com

Watts = amperes² x
ohms. Watts = volts x
amperes. Amperes (I):

Amps = volts / ohms.

Amps = watts / volts.

Amps = square root of
(watts / ohms) AC

Motor Formulas: E =
voltage / I = amps /

W = watts / PF =
power factor / Eff =

efficiency / HP =

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Formulas. Single
Phase:

Basic Electrical
Formulas | Flodraulic
Group

Electrical formulas play a great role in finding the parameter value in any electrical circuits. Most commonly used electrical formulas are formulas related

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Formulas, current, power, resistance etc. Volt is a unit of electrical potential or motive force – the potential is required to send one ampere of current through one ohm of resistance.

Electrical Formulas -
Explanation, Formula
and Solved Examples

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About the Civil
Engineering Formulas
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effort has been made
to present a
comprehensive listing
of all formulas in the
book. Once you find
the formula you seek,
read any
accompanying text
giving background
information about the
formula. Find here all

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