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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

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success - $p =$

probability of failure k

$=$ number of successes

$n =$ number of trials.

Independent Events. P

$(A \text{ and } B \text{ and } C) = P. A.$

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the List of Important Formulas for all the subjects of Mechanical Engineering, which was quite in demand and asked by many aspirants. Providing all the formulas in a single place would assist and help the candidates during every phase of the preparations before the exam.

**Formulas Book for
Mechanical
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$P(A \text{ or } B) = P(A) + P(B)$ 4)

$P(A \text{ or } B)$ = probability of either mutually exclusive event A or B occurring in a trial

$P(A)$ = probability of event

A. v17.0. © 2016

Project Lead The Way,

Inc. ES/B PLTW

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ME101: Engineering

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Mechanics Mechanics:
Oldest of the Physical
Sciences Archimedes
(287-212 BC):

Principles of Lever and
Buoyancy! Mechanics
is a branch of the
physical sciences that
is concerned with the
state of rest or motion
of bodies subjected to
the action of forces.

Rigid-body Mechanics
ME101 Statics

Dynamics Deformable-
Body Mechanics, and

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**ME 101: Engineering
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Equation Sheet page 1

Equation Sheet page 2.

QUIZ SOLUTIONS . Quiz

1 Projectile problem

August 29 Quiz 2 FBD

& MAD September 5

Quiz 3 FBD & MAD

(cylindrical CS)

September 16 HW

SOLUTIONS . Ch 12,

12.81 and 12.92, Ch

13, Ch 14, Ch 15, Ch

16, Ch 17, Ch 18, Ch

19 . Date. Topics.

Sections. Homework

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Assignments. Wk 1.

8/22 ...

Mechanics

Dynamics -

**University of North
Florida**

Thin Rectangular sheet
(slab), axis parallel to
sheet and passing
through center of the
other edge = 1 12 2

Thin Rectangular sheet
(slab), axis along one
edge = 1 3 2 Thin
rectangular sheet
(slab) about
perpendicular axis

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through center = $1/2 \sqrt{d^2 + t^2}$ (

$2 + 2)$

Engineering
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PHYS 2310

**Engineering Physics
I Formula Sheets**

Formulas for

Calculating Stress at a Point. When dealing with mechanics of materials, choosing the correct formula to calculate the stress at a given point can be difficult. Normal and shear stresses come in a wide variety of

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applications, each stress application with its own calculation formula.

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Vineet Vijay Vineet is a
Community Manager
for GATE and various
other Engineering
exams at Gradeup. A

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Mechanical engineer
by profession, Vineet
has a keen interest in
guiding the

pursuing/graduated
engineers for
successful careers and
believes in illuminating
their path through
solving ...

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for Fluid Mechanics -
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Dummies. By James H.
Allen, III . As with any

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branch of physics, solving statics problems requires you to remember all sorts of calculations, diagrams, and formulas. The key to statics success, then, is keeping your shear and moment diagrams straight from your free-body diagrams and knowing the differences among the calculations for moments, centroids, vectors, and pressures.

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Cheat Sheet -
dummies**

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and blogger, currently
a UETian, I want to
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and A level resources
at one place for the
ease of students.

**A Level Mathematics
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Classical mechanics is the branch of physics used to describe the motion of macroscopic objects. It is the most familiar of the theories of physics. The concepts it covers, such as mass, acceleration, and force, are commonly used and known. The subject is based upon a three-dimensional Euclidean space with fixed axes, called a frame of reference. The

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point of concurrency of
the three axes is ...

Engineering
Mechanics

**List of equations in
classical mechanics -
Wikipedia**

Engineering Mechanics
- Formula Sheet. NOTE:
Notation as used
during the lectures.

Table of Standard
Integrals. Note - the
constant of integration
has been omitted. 1. 1.

$\int x^n dx = \frac{x^{n+1}}{n+1}$ for $n \neq -1$
 $\int \frac{1}{x} dx = \ln|x| + C$
 $\int \sin x dx = -\cos x + C$
 $\int \cos x dx = \sin x + C$
 $\int \sin^2 x dx = \frac{x}{2} - \frac{\sin 2x}{4} + C$
 $\int \cos^2 x dx = \frac{x}{2} + \frac{\sin 2x}{4} + C$

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$\sin^2 \theta + \cos^2 \theta = 1$

$\sin^2 \theta = 1 - \cos^2 \theta$

$\cos^2 \theta = 1 - \sin^2 \theta$

**Exam 2014,
questions and
answers -**

**Engineering
Mechanics ...**

C D 37 $\sin 45^\circ = \frac{1}{\sqrt{2}}$ $\tan 45^\circ = 1$

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TABLE OF

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CONSTANTS AND

CONVERSION FACTORS

Proton mass, 1.67×10^{-27} kg

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kg 27 m p Neutron

mass, 1.67 10 kg

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Dec 13, 2016 - Physics

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dt. $a = \alpha \times r - \omega^2 r$.

equations of rotation.

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$$\omega = \omega_0 + \alpha t. \theta = \theta_0 + \omega_0 t + \frac{1}{2} \alpha t^2. \omega^2 = \omega_0^2 + 2\alpha (\theta - \theta_0) \omega = \frac{1}{2} (\omega + \omega_0) \text{ torque. } \tau = rF \sin \theta.$$

Frequently Used Equations - The Physics

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Mechanical

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