

MCAT QUICKSHEET - PHYSICS

KINEMATICS

Viseborse physical quantities with both magnitude and dissocion

Exercipiese Rivos, velocity.

Southern physical quantities that have enagellode, but no disestion.

· Expresses more, speed-

Vector Addition and Subtraction

Table-Tip Method of Floding Resultant of Two THE STREET



Finding Resultant Using Companion Method

- Sessous vectors into x & y components.
- Sum all the sectors in the x direction to: get the resultant for the x-direction, and 50 the same for the y-components.
- The magnitude of the meutons: **第一个大大大工作员**

Displacement (Ax)s the shange in position that gives in a straight-line path from the initial position. to the final: It is independent of the path taken edit devices make

Average velocitys v = (5) (5) units: m/s)

Accelerations the rate of change of an object's velocity it is a system manufact in a life etia contrac envas?s.

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CONTRACTOR STATE STATE properties by think that regressed assert will their poster

a planting making the below.

Charles will then been unusually

Projection Methods



- vertical component of velocity is visin it
- borizontal asymptoment of suitably wie cost 0.

Polydlowal Forces

Statio Printies (C)o is the force that must be overpoine to left an object in motion. It has the dominated to an it, at activities

Whethe Priction (E.): opposes the motion of objects moving estative to each other, it has the decrees, date of the payout



NEWTON'S LAWS

Newton's Pinst Law (Law of Inertial: a body in a state of motion or ot rent will remain in that state unitees arched upon by a neg force.

Newton's Record Law, when a not force is applied to a body of mass in, the body will be accelerated in the same direction as the force applied to the mass. This is expressed by the formula F = ms (St unit: Newton (N) = kg-m/s²).



Married Williams and Sections Mary Service Services "To " Parameter between the second persons of Commence of the Commence of th

Newton's Third Laws If Dody A exerts a force on body St. Oten & will exert a force back onto A that is equal in magnitude, but apposite in direction. This pan be expressed as, $F_k = -F_{\mu\nu}$

Newton's Law of Gravitation: All forms of matter experience an attractive force to other forms of motter in the universe. The magnitude of the force to represented by: F - Styre.

- Mass (set): a scalar quantity that emotionisms in bindy's insection
- Weight (W): a vector quantity that measures a body's gravitational attraction to the earth (W- eigh-

Unifferen Circular Motion:

Marin Marin Water Mills



Expublisher hunter

First condition of equilibrium: An object is in translational equilibrium when the sum of forces pushing it one direction is countertraismost by the sure of forces acting in the opposite direction. It can be expressed as \$F = 0.



Problem Solving Guide

- Resolve the forces into x and y. components.
- Size it impost the time for equilibrium; therefore, $\Sigma F_s = 0$ and $\Sigma F_s = 0$.
- Only forces in the x direction affect. emotion of the expect.

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WORK ENERGY & MOMENTUM

Whole for a constant force if acting on an object that moves through a distance of, the work is W -Filtroods, differ a force personalization to the displacement, W = 0.3 050 unit) Joule = Nimi)

Powers the rate at which work is performed, and In given by: 产业 夢 (如) unit: West = J/ss.

Marchanical Energy

Energy is a souther quantity (58 and; Joules).

Minetic energy: the energy associated with encoving objects, it is given by:

Percential energy: the energy associated with a body's position. Granifational possistial energy of on object is due to the force of gravity acting on it. and it is especially due to the

Fortal Mischanio Energy

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Mechanical energy is conserved when the sum of kinetic and potential energies remains constant

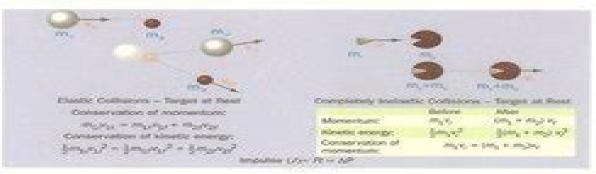
Work-Energy Theorem

Relation like work performed by all forois activation. a body in a particular time interval to the change in lonetic energy at that time: The expression is: Mary Street, Square, S

Conservation of Energy

When there are no appropriative forces inch. frictions acting on a watern, the total mechanical energy semisine constant; $\Delta E = \Delta K + \Delta G = \Phi$

Microsofonic is vector quantity. It is given by: All the proper



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John D. Cutnell

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