$m_{\phi} = ab v_{\phi}/ab c$ 

#### MOTRTIONS

- A. All scalar quantities are denoted by normal print. e.g., time, t. Also, the magnitude of vector quantities is denoted by normal print, e.g., velocity magmittade, w = (w).
- B. All vectors quantities are depoted by italic bold print, e.g., velocity vector, v; acceleration vector, a.

#### DEFINITIONS

- A. Vector Components. Any vector can be decomed to a cortain number of components based on the reference coordinate system.
- 1. Cartesian (Orthogonal) Coordinate System, 36-18-483  $a - a_n + a_n + a_n - a_n i + a_n j + a_n k - a(a_n, a_n, a_n)$ 
  - where a,, a, a, are the vector components and I, J. A are the unit vectors along the axes x, y, x received by
- 2. Polar Coordinate System, r-6:
- $m = m_{\mu} + m_{\mu} = m_{\mu} e_{\mu} + m_{\mu} e_{\mu} = m(n_{\mu}, n_{\mu})$ , where  $m_{\mu}, m_{\mu}$ are the vector components and e, and e, are the radial and transverse unit vectors respectively.



- 3. Spherical Coordinates System, (r-0 -d)c
  - ALT IS COUNTY WINDS the same being
  - at mile goods.



- 4. Cylindrical Coordinate System, (r-6-z):
  - By THEOREM ALC: N MARKET



- B. Scalar product between two vectors at and A is defined as:
- arb jarib) cosp ab cosp where p is the angle
- formed by the two vectors. C. Vector product between two vectors a and h is defined as:
  - $c = a \times b = |a||b|$  sinde, = ab sinde, , where  $\phi$  is the angle formed by the two vectors, and  $e_a$  is the unit. vector perpendicular to the plane defined by the vectors at and A. Using a contesian coordinate sys-
- tem the vector product can be defined as:  $c = a \times b = (a_1b_2 - b_1a_1)b = (a_1b_2 - b_1a_1)b + (a_1b_2 - b_2)a_1b = (a_1b_2 - b_2)a_1b = (a_1b_2 - b_2)a_1b = (a_1b_2 - b_2)a_2b = (a_1b_2 - b_2)a_$
- D. Particles are hypothetical bodies that do not possess any potational characteristics. All points of a particle have the same displacement, velocits, and and the second second
- E. Rigid budies are objects whose points may have
- different displacement, velocity, and acceleration. Kinematies is the study of motion without considering the forces that cause the motion. Kinematics involve displacement, velocity, acceleration, and
- G. Kinetics is the study of motion as related to the forces emusing the motion. Kinetics involve force, mass, and acceleration.
- H. Path is the curve that a particle follows as it moves through the space. The path can be a space curve called tertenes or a plane curve called plane path.

#### KINEMATICS PARTICLE MOTION

#### RECTILINEAR MOTION

Rectilinear mation is whenever particles move along a straight line. The governing equations regarding acceleration, a, velocity, v. and displacement (position coordinate), x, for rectilinear motion are:

Generally, all three variables, a, v, and s, are vectors. However, in the above equations these variables are treated as scalars, since the motion is rectilinear and their direction can be defined only by their sign (posdeliver our merganishment.

A Formulas for Uniformly Accelerated Rectilinear Motion. Denoting the initial conditions (t = 0) of the various variables by the subscript (e), the relationships between position coordinate, s, velocity, v. acceleration, a, and time, t, are given as follows:

#### Cilburgan

#### #Continuedors

$$a_{ij}a_{jj}a_{ij}$$
  $a_{ij}$   $a_{ij}$ 

$$\mathbf{x}_{i,n} \cdot \mathbf{v}_{j,n} \cdot \mathbf{x}_i \cdot \mathbf{r}$$
 is  $\mathbf{x} = \mathbf{x}_{i,n} + 1/2(\mathbf{x}_{i,n} + \mathbf{v})\mathbf{x}$ 

$$\mathbf{x}_{\mathrm{ps}}, \mathbf{x}_{\mathrm{s}}, \mathbf{x}_{\mathrm{s}}, \mathbf{t} = \mathbf{x}_{\mathrm{p}} = (\mathbf{x} - \mathbf{x}_{\mathrm{p}})/\mathbf{t} + V_{\mathrm{p}}$$
 at

$$v_{i_1}, u_{i_2}, t_1, \dots, v_{i_{n-1}}, u_{i_{n-1}}, \dots, u_{i_$$

$$x_{n} \in x_{n} + x_{n} + x_{n} = 2[(x - x_{n}) - x_{n})] +$$

$$\mathbf{v}_{ab}$$
,  $\mathbf{v}_{a}$  is  $\mathbf{z} = (\mathbf{v} - \mathbf{v}_{a})/\mathbf{z}$ 

$$s_{a_1} s_{a_2} s_{a_3} = -1[2a(s_1 - s_{a_3}) + v_a^2]^{\frac{1}{2}(2a_1} v_{a_3})/a$$

$$\mathbf{s}_{av} \cdot \mathbf{s}_{v} \cdot \mathbf{v} = \mathbf{s} = 2(\mathbf{s} - \mathbf{s}_{a})/(\mathbf{v}_{a} + \mathbf{v})$$



- II. A main example of uniformly accelerated rectilinear motion of free falling particles.
  - Other types of rectilinear motion include: Non-accelerating motions, s = s, + v,t; v = v,c a = 0, or motions where the displacement
  - decreases exponentially in time at a constant rate, -k, s = s\_exp(-kt); v = -ks\_exp(-kt); and as to kelling energyl-lattic.
- C. Relative Motion Between Two Particles A and B. The position coordinate, velocity, and acceleration of particle B as related to particle A are defined as:  $s_{ik} = s_{ik} + s_{ik|k}$ ;  $v_{ik} = v_{ik} + v_{ik|k}$ ;  $s_{ik} = s_{ik} + s_{ik|k}$ . where son is the distance between the two particles A and B, and vaca, any are respectively the relative velocity and acceleration of particle II with respect to particle A.



#### CURVILINEAR MOTION

Curvilinear motion is the motion where particles nove along a curred path. The position of a particle is given by the position vector v. The velocity, v. and the acceleration, a, for curvilinear motion are defined as:

v - deldt, bi - v - dvidt (particle velocity, v, is tangent to the particle's path, s), a = dwidt (particle acceleration, a, is not tangent to the particle's path, s).



- Cartesian Coordinate System (Rectangular Comproments to
  - 产一种无效, 200 年一年以上下,大大田田田田田山山山北京 v. - dv/dt: v. - dy/dt:  $w_{\mu} = dx/dt_{\mu}$
  - Circular Periodic Metions
    - y = r since oc so min executive city. allegite of
  - $\begin{array}{lll} v_n = -i\theta \, \sin(\theta t); & v_n = i\theta \, \cos(\theta t); & v = i\theta; \\ a_n = -i\theta' \, \cos(\theta t); & a_n = -i\theta' \, \sin(\theta t); & a = i\theta'. \end{array}$
- Relative Motion Between Two Particles A and B:
- Party Property Party Par



- 1. Two-Dimensional Motion: For plane motion, the particle acceleration can be separated into two components, one tangential, a, and one normal,  $a_{ij}$ ,  $v = ve_i$ ;  $a = a_i = a_j = (dv/dt) e_i =$ (ar lpite, where at is the tangential acceleration, at, is the normal acceleration, # is the radius of conventure, e, is the tangential unit vector, and e, is the normal unit vector to the curved path of
- 2. Three-Dimensional Metion: Osculating plane in a three dimensional motion is the plane in the neighborhood of the moving particle that includes the unit vectors, e., (tangent) and e., (principal normal). The binormal unit vector,
- es, is perpendicular to the osculating plan C. Pular Coordinates System (Radial and
- Transverse Components in Plane Metion):
- 1. Particle Velocity:  $\mathbf{r} = \mathbf{v}_{\mathbf{r}}\mathbf{e}_{\mathbf{r}} + \mathbf{v}_{\mathbf{p}}\mathbf{e}_{\mathbf{p}} - 4 \operatorname{dividities}_{\mathbf{r}} + 44 \operatorname{dividities}_{\mathbf{r}}$  :
- 2. Particle Acceleration:
  - # 1,0, 4,0, (d\*rids\* 5) (d#ds\*)s, (s(d\*#ds\*) + 2)ds\*ds) (diff dtt)e, where e, and e, are the unit radial and transverse unit vectors respectively.



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web degree of reaction zero reaction stage let us first discuss the special case of zero reaction according to the definition of reaction when  $\Lambda$  0 equation upper reveals that h1 h2 and equation lower that  $\beta$ 1  $\beta$ 2 fifty percent reaction stage  $\beta$ 2 and the velocity diagram is symmetrical because of symmetrical symmetry it is also

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web the 50 reaction turbine has been used widely and has special significance the velocity diagram of a 50 reaction is symmetrical and for the maximum utilization factor the exit velocity v2 must be axial figure 2 40 shows a velocity diagram of a 50 reaction turbine and the effect on the utilization factor

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web p1v1 u1 v12 2 gz1 q p2v2 u2 v22 2 gz2 w p1v1 u1 h1 enthalpy of steam at inlet p2v2 u2 h2 enthalpy of steam at exit h1 v12 2 gz1 q h2 v22 2 gz2 w generally changes in potential energy are negligible z1 z2 if no heat is supplied from the surroundings then q 0

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web velocity diagram fig 7 velocity diagram of pressure compounded reaction turbine the velocity diagram given in figure 7 gives a detail about the various components of steam velocity and blade velocity symbols have the same meaning as above see also pressure compounding in turbines references

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