

Dynamics Kinematics Of Particles Solution Manual

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Chapter 11. Kinematics of Particles . Contents . Introduction . Rectilinear Motion: Position, Velocity & Acceleration . Determining the Motion of a Particle . Sample Problem 11.2 . Sample Problem 11.3 . Uniform Rectilinear-Motion . Uniformly Accelerated Rectilinear-Motion . Motion of Several Particles: Relative Motion . Sample Problem 11.5

Ch. 3: Kinetics of Particles 3.3 Equation of Motion and Solution of Problems 3.3 Equation of Motion and Solution Two problems of dynamics (1) specified kinematic conditions, find forces \mathcal{E} straightforward application of Newton's law as algebraic equations (2) specified forces, find motion \mathcal{E} Difficulty depends on the form of force function

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Kinematics of Particles Rectilinear Motion: Graphical Interpretations Using s-t curve, v-t & a-t curves can be plotted. 13 Area under v-t curve during time dt = $v dt = ds$ • Net disp from t 1 to t 2 = corresponding area under v-t curve or $s_2 - s_1 = (\text{area under v-t curve})$ Area under a-t curve during time dt = $a dt = dv$ • Net change in vel from t 1 to t 2 = corresponding

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kinetic diagram in our dynamic analysis. 1. Isolate the body of interest (free body) 2. Draw your axis system (e.g., Cartesian, polar, path) 3. Add in applied forces (e.g., weight) 4. Replace supports with forces (e.g., reactions :normal force) 5. Draw appropriate dimensions (usually angles for particles)

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