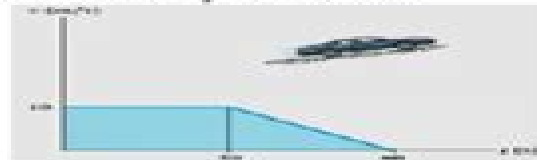


Engineering mechanics II (Dynamics) worksheet from Chapter Two

1.1 Rectilinear motion

1. A train starts from rest at a station and travels with a constant acceleration of 1 m/s^2 . Determine the velocity of the train when $t = 30\text{s}$ and the distance traveled during this time.
2. A rocket is fired vertically up from rest. If it designed to maintain upward acceleration of $1.5g$. Calculate the time t required for it to reach an altitude of 30km and its velocity at that position.
3. A motorcycle patrolman starts from rest at A two seconds after a car, speeding at the constant rate of 120 km/hr , passes point A. If the patrolman accelerates at the rate of 6 m/sec^2 until he reaches his maximum permissible speed of 150 km/hr , which he maintains, calculate the distance s from point A to the point at which he overtakes the car.
4. The displacement of a particle which moves along the s -axis is given by; $s = (-2 + 3t)e^{-0.5t}$ Where s is in meters and t is in seconds. Determine the time at which the acceleration is zero.
5. The acceleration of a particle traveling along a straight line is $a(s) = 8 - 2s$ in m/s^2 , where s is in meters. If $v = 0$ at $s = 0$, determine the velocity of the particle at $s = 2\text{m}$, and the position of the particle when the velocity is maximum.



1.1 Curvilinear motion

6. A particle which moves with curvilinear motion has coordinates in millimeters which vary with the time t in seconds according to $x = 3t^2 - 4t$ and $y = 4t^2 - \frac{1}{3}t^3$. Determine the magnitudes of velocity v and acceleration a and the angles which these vectors make with the x -axis when $t = 2\text{s}$.

Engineering Mechanics Ii Chapter Solution

J Rink



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Engineering Mechanics Ii Chapter Solution Book Review: Unveiling the Power of Words

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