

ENGR 222 Dynamics
Problem Set #2

Meriam and Kraige, Engineering Mechanics-Dynamics (Eighth Edition)

Material Covered: Chapter 2-1 to 2-9

Topics Covered:

velocity	normal and tangential coordinates
acceleration	rectangular coordinates
motion in a plane	polar coordinates
motion along a line	spherical coordinates
relative motion	cylindrical coordinates

1. Meriam and Kraige (8th ed.), problem 2/96.
2. Meriam and Kraige (8th ed.), problem 2/111.
3. Meriam and Kraige (8th ed.), problem 2/157.

4. Derive the expression for the acceleration of a particle in spherical coordinates.

5. Meriam and Kraige (8th ed.), problem 2/180.
6. Meriam and Kraige (8th ed.), problem 2/181.
7. Meriam and Kraige (8th ed.), problem 2/195.
8. Meriam and Kraige (8th ed.), problem 2/224.