

# Download Kinematics In Polar Coordinates

Kinematics is a branch of classical mechanics that describes the motion of points, bodies (objects), and systems of bodies (groups of objects) without considering the forces that caused the motion. As the spherical coordinate system is only one of many three-dimensional coordinate systems, there exist equations for converting coordinates between the spherical coordinate system and others. 199 2 Kinematics Kinematics is concerned with expressing in mathematical form the deformation and motion of materials. In what follows, a number of important quantities, mainly vectors and second-3. Kinematics . 3.1 Basic Assumptions . Continuum mechanics is a combination of mathematics and physical laws that approximate the large-scale behavior of matter that is subjected to mechanical loading.