

1 Spherical Coordinate System

The spherical coordinate system uses three coordinates (r, θ, ϕ) where:

- r is the radial distance from the origin
- θ is the polar angle from the positive z -axis
- ϕ is the azimuthal angle from the positive x -axis

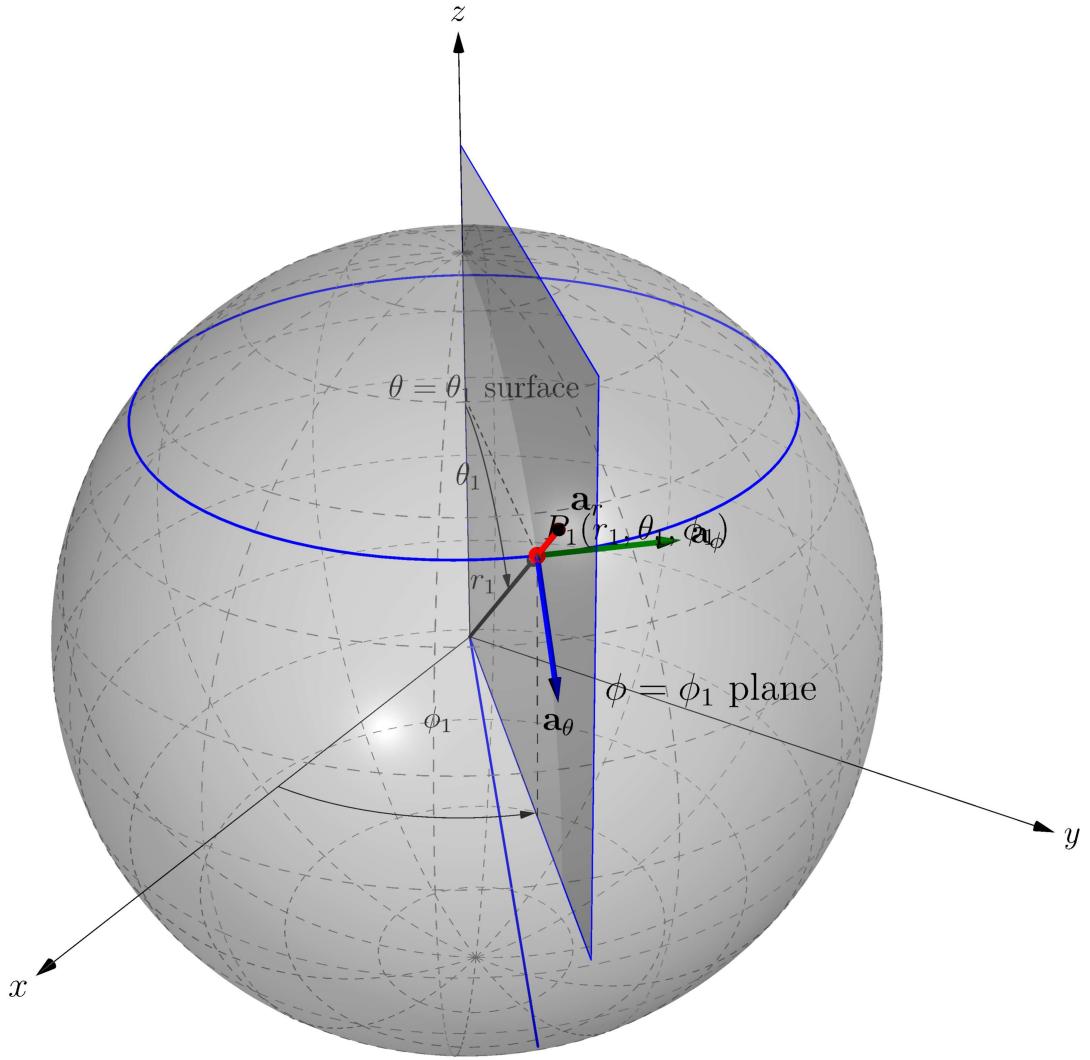


Figure 1: Spherical coordinate system showing point P_1 and basis vectors