

Quiz – 6

Problem: A slender rod OA of mass m and length $1.4b$ (and of negligible thickness) is bent into L -shape as shown. The rod is in the Oxy plane.

- (a) Determine its products of inertia $I_{xx}, I_{yy}, I_{zz}, I_{xy}, I_{xz}, I_{yz}$.
- (b) Determine its product of inertia about the axis OM , if the unit vector on this line is $\vec{\lambda}_{OM} = (\vec{i} + \vec{j} + \vec{k})/\sqrt{3}$.

