Exercise 7 - TFY4345 Classical Mechanics

2020

1 Inertia tensor

A very thin rectangular slab has been placed in the xyz-coordinats system, such that the origin is in one of the slab corners, and the sides are along the x- and y-axes. The corresponding side lengths are a and b. Since the slab is very thin, we can assume that z=0 throughout. (NUMMERER a), b))

- Evaluate the individual elements of the inertia tensor.
- \bullet Set a=b, and solve for the principal moments of inertia, and the corresponding principal axes.