The L-shaped object in Figure 11-27 consists of three masses connected by light rods.


Figure 11-27

(a) What torque must be applied to this object to give it an angular acceleration of 1.27 rad/s2 if it is rotated about the *x* axis?
\_\_\_\_\_\_\_\_\_1N·m
(b) What torque must be applied to this object to give it an angular acceleration of 1.27 rad/s2 if it is rotated about the *y* axis?
2 \_\_\_\_\_\_\_\_\_N·m
(c) What torque must be applied to this object to give it an angular acceleration of 1.27 rad/s2 if it is rotated about the *z* axis (which is through the origin and perpendicular to the page)?
\_\_\_\_\_\_\_\_\_3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ N·m