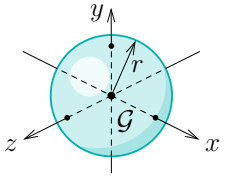
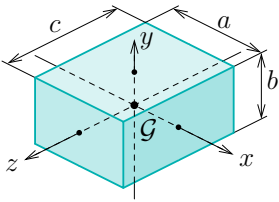
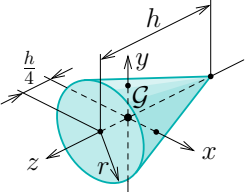
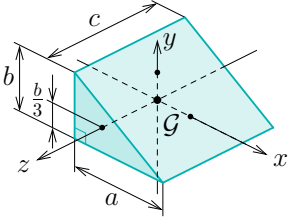
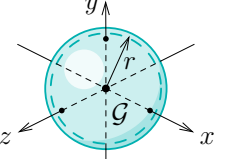
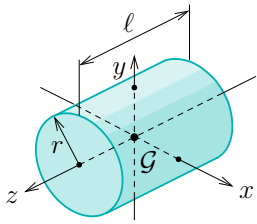
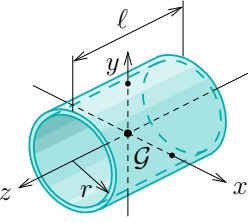
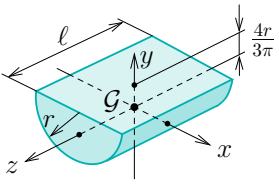
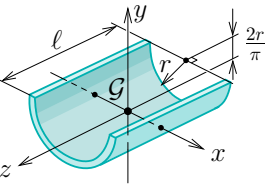


Tröghetsmatrisens diagonal $I_{G_{xx}}$, $I_{G_{yy}}$ och $I_{G_{zz}}$ m.a.p. masscentrum \mathcal{G} för tredimensionella kroppar, skal och stänger med jämnt fördelad massa m .

klot		$I_{G_{xx}} = I_{G_{yy}} = I_{G_{zz}} = \frac{2}{5}mr^2$			
rätblock		$I_{G_{xx}} = \frac{1}{12}m(b^2 + c^2)$ $I_{G_{yy}} = \frac{1}{12}m(a^2 + c^2)$ $I_{G_{zz}} = \frac{1}{12}m(a^2 + b^2)$	kon		$I_{G_{xx}} = I_{G_{yy}} = \frac{3}{20}mr^2 + \frac{3}{80}mh^2$ $I_{G_{zz}} = \frac{3}{10}mr^2$
rätvinkligt prisma		$I_{G_{zz}} = \frac{1}{18}m(a^2 + b^2)$	sfäriskt skal		$I_{G_{xx}} = I_{G_{yy}} = I_{G_{zz}} = \frac{2}{3}mr^2$
cylinder		$I_{G_{xx}} = I_{G_{yy}} = \frac{1}{4}mr^2 + \frac{1}{12}m\ell^2$ $I_{G_{zz}} = \frac{1}{2}mr^2$	cylinderskal		$I_{G_{xx}} = I_{G_{yy}} = \frac{1}{2}mr^2 + \frac{1}{12}m\ell^2$ $I_{G_{zz}} = mr^2$
halvcylinder		$I_{G_{xx}} = \left(\frac{1}{4} - \frac{16}{9\pi^2}\right)mr^2 + \frac{1}{12}m\ell^2$ $I_{G_{yy}} = \frac{1}{4}mr^2 + \frac{1}{12}m\ell^2$ $I_{G_{zz}} = \left(\frac{1}{2} - \frac{16}{9\pi^2}\right)mr^2$	halvcylinderskal		$I_{G_{xx}} = \left(\frac{1}{2} - \frac{4}{\pi^2}\right)mr^2 + \frac{1}{12}m\ell^2$ $I_{G_{yy}} = \frac{1}{2}mr^2 + \frac{1}{12}m\ell^2$ $I_{G_{zz}} = \left(1 - \frac{4}{\pi^2}\right)mr^2$