Advanced Chemistry, 2008
Winter Quarter - Week 7 Homework

For a rigid rotor that has masses $m_{1}$ and $m_{2}$ connected by a rigid bond of length $R$ as shown below, show that
$r_{1}=\frac{\left(\mathrm{m}_{2}\right)}{\left(m_{1}+\mathrm{m}_{2}\right)} \mathrm{R} \quad$ and $\quad r_{2}=\frac{\left(\mathrm{m}_{1}\right)}{\left(m_{1}+\mathrm{m}_{2}\right)} \mathrm{R}$


R

