Example Problem - Le 14

**Ex.** Bar AB weighs 10 lb and bar BC weighs 6 lb. If the system is released from rest in the position shown, what are the angular velocities of the bars at the instant just before joint B hits the smooth floor?

**Known:**

\[
m_{AB} = 0.311 \frac{lb \ s^2}{ft} \quad m_{BC} = 0.186 \frac{lb \ s^2}{ft} \quad I_{G, AB} = 0.104 \frac{lb \ s^2}{ft} \quad I_{G, BC} = 0.031 \frac{lb \ s^2}{ft}
\]