

2.2.1 An otherwise massless structure is made of four point masses, m , $2m$, $3m$ and $4m$, located at coordinates $(0, 1 \text{ m})$, $(1 \text{ m}, 1 \text{ m})$, $(1 \text{ m}, -1 \text{ m})$, and $(0, -1 \text{ m})$, respectively. Locate the center of mass of the structure.

Answer:

$(0.5 \text{ m}, -0.4 \text{ m})$