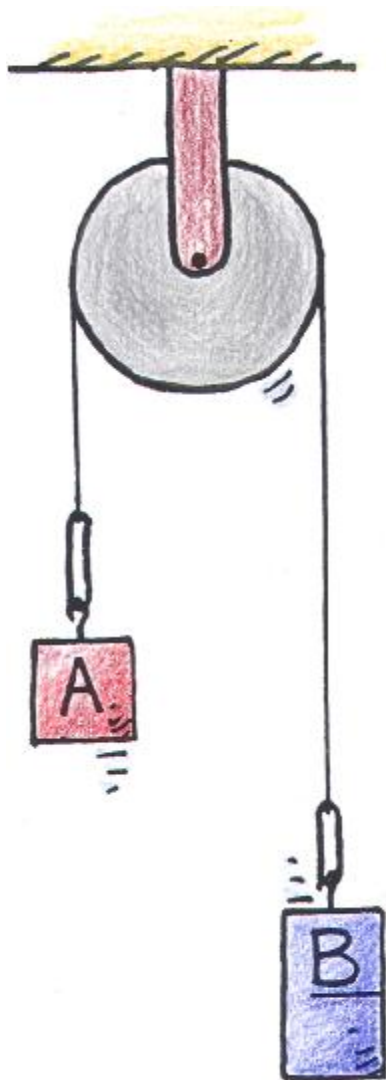


NEXT-TIME QUESTION

CONCEPTUAL Physics



Two identical rubber bands connect masses A and B to a string over a frictionless pulley of negligible mass. The amount of stretch is greater in the rubber band that connects

- a) mass A.
- b) mass B.
- c) Both the same.



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Answer: c

The tension that stretches the rubber bands is the same as the tension in the string—same at both ends, in accord with Newton's third law.

To better see this, imagine the rubber bands are farther from the ends of the string. If the tension all along the string is the same, likewise for the rubber bands.



Hewitt
Draw it!

