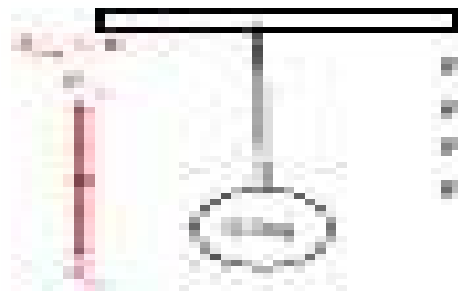


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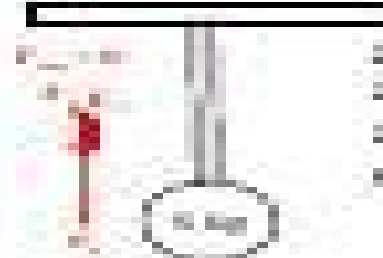
Quantitative Force Analysis & Vector Components

Worked example right with me provided for all problems:

1. Decompose that tension in each cable below. Draw a force diagram for the system before solving these problems.
 (Case A = ball suspended between cables; Case B = ball suspended by two cables)

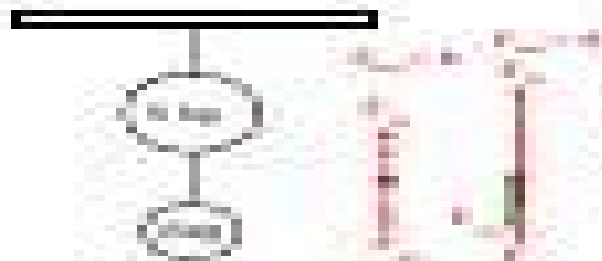


$F_{cable} = F_T = 100\text{ N}$
 $F_{cable} = mg = 100\text{ N}$
 $F_T = \frac{mg}{\sin(90^\circ)} = 100\text{ N}$
 $F_T = 100\text{ N}$



$2F_T = F_T = 100\text{ N}$
 $2F_T = mg = 100\text{ N}$
 $2F_T = \frac{mg}{\sin(90^\circ)} = 100\text{ N}$
 $F_T = 50\text{ N}$

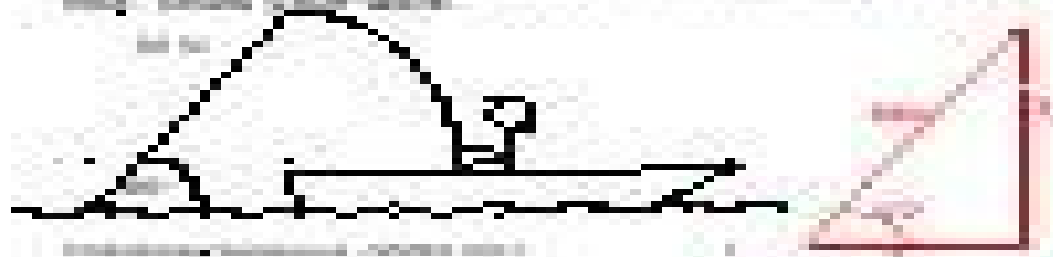
2. Decompose tensions in each cable:



Ball on right:
 $F_{cable} = F_T = 100\text{ N}$
 $F_{cable} = mg = 100\text{ N}$
 $F_{cable} = \frac{mg}{\sin(90^\circ)} = 100\text{ N}$
 $F_{cable} = 100\text{ N}$

Top right cable:
 $F_T = F_{cable} + F_T = 100\text{ N}$
 $F_T = mg = 100\text{ N}$
 $F_T = \frac{mg}{\sin(90^\circ)} = 100\text{ N}$
 $F_T = 100\text{ N}$

3. Draw the force triangle and vertically decompose all the tensions in that situation. Show your work.



$\sin(30^\circ) = \frac{T}{100\text{ N}}$
 $F_T = \sin(30^\circ) (100\text{ N}) = 50\text{ N}$
 $\cos(30^\circ) = \frac{T}{100\text{ N}}$
 $F_T = \cos(30^\circ) (100\text{ N}) = 86.6\text{ N}$

Particle Model Quantitative Force Analysis Answers

ML Morrison



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