

ENGINEERING MECHANICS PROBLEM

The following forces act on a point:-

1. 200 kg inclined at 20 degrees towards north of East
2. 25 kg towards north
3. 300 kg inclined at 40 degrees towards north of west
4. 350 kg inclined 40 degrees towards south of west.

Calculate the
Resultant force.

**RESULTANT
FORCE**

$$\text{Resultant force } F_z = \sqrt{(F_x)^2 + (F_y)^2 + 2F_x F_y \cos 90^\circ}$$

$$F_x = 200 \cos 20^\circ + 250 \cos 90^\circ + 300 \cos 140^\circ + 350 \cos 220^\circ$$
$$= -324.7 \text{ N}$$

$$F_y = 200 \sin 20^\circ + 250 \sin 90^\circ + 300 \sin 140^\circ + 350 \sin 220^\circ$$



$$F = 454.4 \text{ N}$$

Engineering Mechanics Solved Problems

S Ben Porath



Engineering Mechanics Solved Problems:

Embracing the Melody of Phrase: An Emotional Symphony within **Engineering Mechanics Solved Problems**

In a global consumed by monitors and the ceaseless chatter of instant conversation, the melodic splendor and emotional symphony produced by the prepared word usually diminish into the background, eclipsed by the persistent noise and interruptions that permeate our lives. However, nestled within the pages of **Engineering Mechanics Solved Problems** a stunning fictional prize full of natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that captivating masterpiece conducts visitors on a mental journey, skillfully unraveling the hidden songs and profound affect resonating within each cautiously constructed phrase. Within the depths of this emotional examination, we shall discover the book is key harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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