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Intro

Draw the shear and moment diagrams for the beam

Draw the shear and moment diagrams

Draw the shear and moment diagrams for the beam

Draw the shear and moment diagrams for the beam

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Intro

Determine the moment of each of the three forces about point A.

The 70-N force acts on the end of the pipe at B.

The curved rod lies in the x-y plane and has a radius of 3 m.

Determine the moment of this force about point A.

Determine the resultant moment produced by forces

Mechanical Engineering: Ch 10: Forces on Cables (8 of 33) Concentrated Load: Example (Part 1) -

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Michel van Biezen 115,937 views 7 years ago 9 minutes, 3 seconds - In this video I will calculate the various force acting at different points of a cable with concentrated load (Part 1). Next video in this ...
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Finding the Resultant

Tabular Method

Find the Total Sum of the X Components

Y Component of Force

Draw a Diagram Showing these Forces

Resultant Force

Find the Angle

The Tan Rule

Final Answer for the Resultant

How To Find The Resultant of Two Vectors - How To Find The Resultant of Two Vectors by The Organic Chemistry Tutor 1,417,664 views 3 years ago 11 minutes, 10 seconds - This physics video tutorial explains how to find the resultant of two vectors. Full 31 Minute Video on Patreon: ...

Unit Vectors

Reference Angle

Calculate the Y Component of F2

Draw a Graph

Calculate the Magnitude of the Resultant Vector

Calculate the Hypotenuse of the Right Triangle

Calculate the Angle

Mechanical Engineering: Particle Equilibrium (7 of 19) Tension of Cables Attached to Hanging Object - Mechanical Engineering: Particle Equilibrium (7 of 19) Tension of Cables Attached to Hanging Object by Michel van Biezen 449,123 views 8 years ago 10 minutes, 22 seconds - In this video I will calculate $T_1=?$, $T_2=?$, $T_3=?$ of a 500kg mass hanging from a ceiling. Next video in the Particle Equilibrium series ...

Find the Tension in Cable Three

Find Tension One in the X Direction

Alternate Interior Angles

Why Does T1 Have More of More Tension than T2

Statics Example: 2D Rigid Body Equilibrium - Statics Example: 2D Rigid Body Equilibrium by UWMC Engineering 211,929 views 8 years ago 5 minutes, 59 seconds

Free Body Diagram

Support Reactions

Moment Equilibrium Equation

Equilibrium of Forces 1 (Equilibrium of Particles) | Applied Mechanics #equilibrium #solidmechanics - Equilibrium of Forces 1 (Equilibrium of Particles) | Applied Mechanics #equilibrium #solidmechanics by Excellence Academy 10,475 views 10 months ago 14 minutes, 30 seconds - Applied **Mechanics**, class on equilibrium of forces in 2D. This video gives a detailed and great explanation on how to find the ...

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Intro

Determine the tension developed in wires CA and CB required for equilibrium

Each cord can sustain a maximum tension of 500 N.

If the spring DB has an unstretched length of 2 m

Cable ABC has a length of 5 m. Determine the position x

Equilibrium of Rigid Bodies 3D force Systems | Mechanics Statics | (solved examples) - Equilibrium of Rigid Bodies 3D force Systems | Mechanics Statics | (solved examples) by Question Solutions

118,067 views 3 years ago 10 minutes, 14 seconds - Let's go through how to solve 3D equilibrium problems with 3 force reactions and 3 moment reactions. We go through multiple ...

Intro

The sign has a mass of 100 kg with center of mass at G.

Determine the components of reaction at the fixed support A.

The shaft is supported by three smooth journal bearings at A, B, and C.

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He is also known in physics for laying the foundations of hydrostatics, statics, and the explanation of the principle of the lever. Theophrastus wrote... 194 KB (22,063 words) - 21:47, 6 March 2024 large numbers. He was also one of the first to apply mathematics to physical phenomena, working on statics and hydrostatics. Archimedes' achievements in... 125 KB (14,773 words) - 15:41, 9 February 2024

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