

Homework Problem 11.A

Given: Member AB is supported by a ball-and-socket joint at end B, and by a smooth vertical wall at end A, along with cable CD. A downward vertical load acts at the midpoint C of member AB. The weight of AB can be considered to be negligible compared to the applied force P .

Find: Determine the tension in cable CD and the reaction on AB at end A. Express your answer in terms of P .

