



ENGINEERING MECHANICS

Rashmi B A

Department of Civil Engineering

ENGINEERING MECHANICS

STRUCTURES

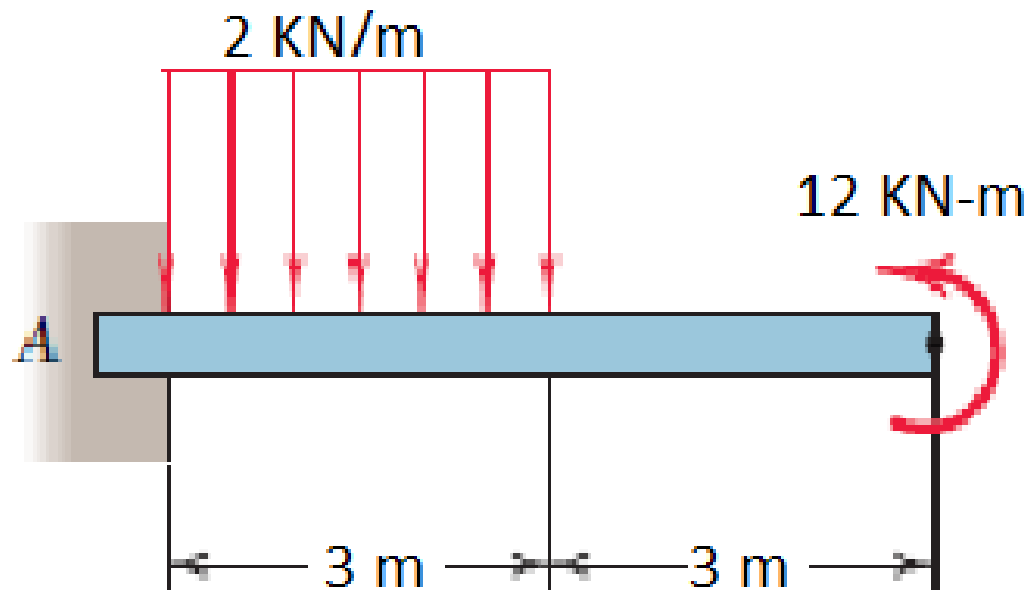
Rashmi B A

Department of Civil Engineering

ENGINEERING MECHANICS

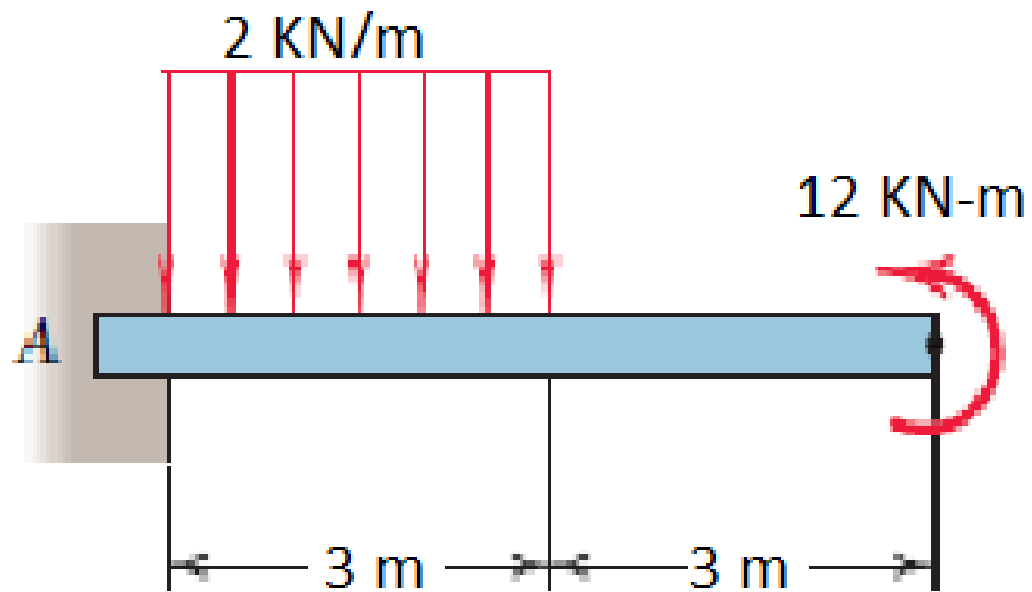
BEAMS

5/105. Find the reaction at A due to the uniform loading and the applied couple.



ENGINEERING MECHANICS

BEAMS



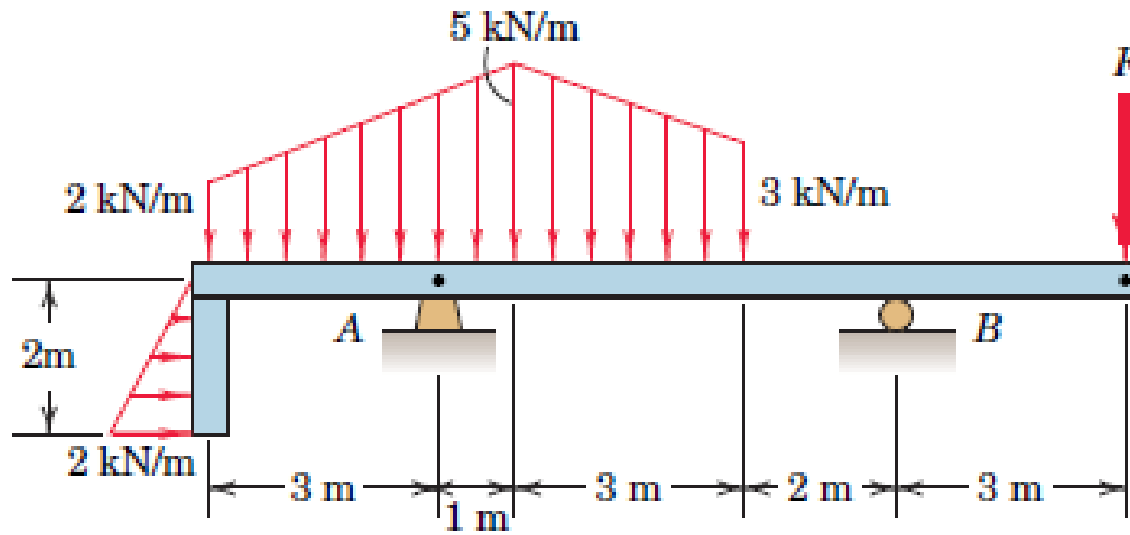
$$R_A = 6 \text{ kN Up}$$

$$M_A = 3 \text{ kN.m CW}$$

ENGINEERING MECHANICS

BEAMS

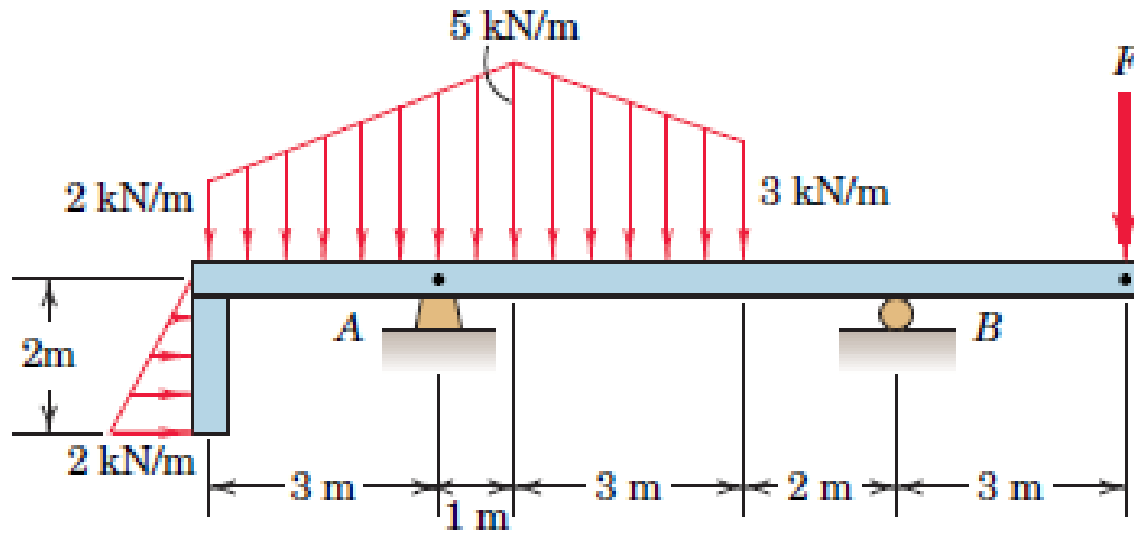
5/116. For the beam and loading shown, determine the magnitude of the force F for which the vertical reactions at A and B are equal. With this value of F , compute the magnitude of the pin reaction at A .



Problem 5/116

ENGINEERING MECHANICS

BEAMS



Problem 5/116

$$F = 10.36 \text{ KN}$$

$$R_A = 18.29 \text{ KN}$$



THANK YOU

Rashmi B A

Department of Civil Engineering

rashmiba@pes.edu