

Homework Problem H31.A

Given: A rigid platform is supported by rods (1) and (2), with the rods having equal cross-sectional areas of A . The platform, in turn, supports a crate having a weight of W . Consider the weight of the platform and rods to be negligible compared to the weight of the crate.

Find: Determine the stress in each rod.

For this problem, use the following parameters: $a = 2$ ft, $b = 3$ ft, $A = 4$ in² and $W = 2000$ lb.

