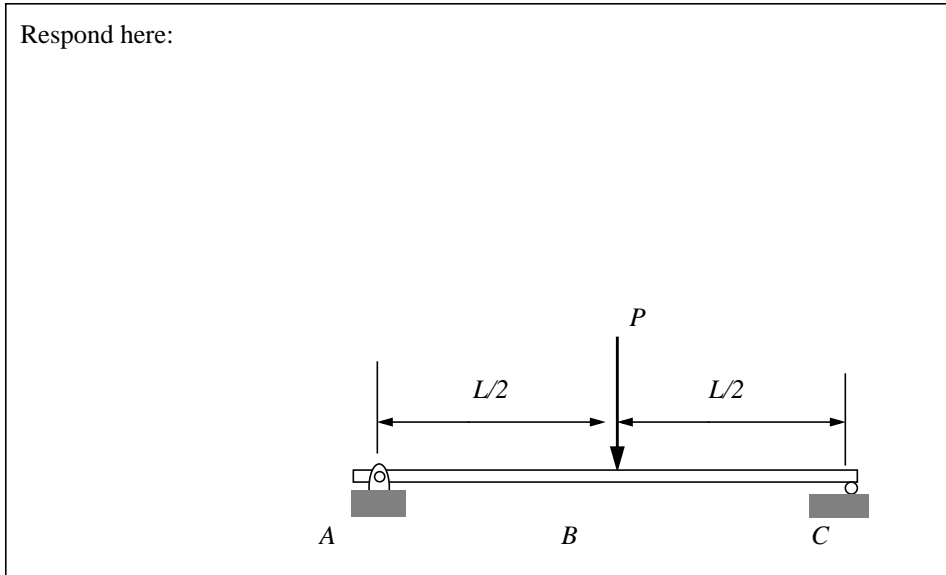


A “simply supported” (weightless) beam, of length L , carries a load P at midspan. Why are the reactions at A and C equal, each of magnitude $P/2$, and acting up on the pins at the ends?



Determine how the internal (bending) moment, M_b , and internal (shear) force, V , vary with x and P and L .

