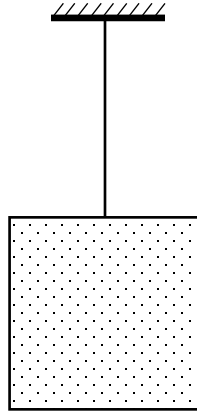


Due to the manufacturing impression, the weight of the block in the figure is random, following a normal distribution  $W \sim N(2,000, 10^2)$  N. If the allowable tension of the cable is 2,030 N, what is the probability that the cable will break?



Solution

$$P(W > 2,030) = 0.0013$$