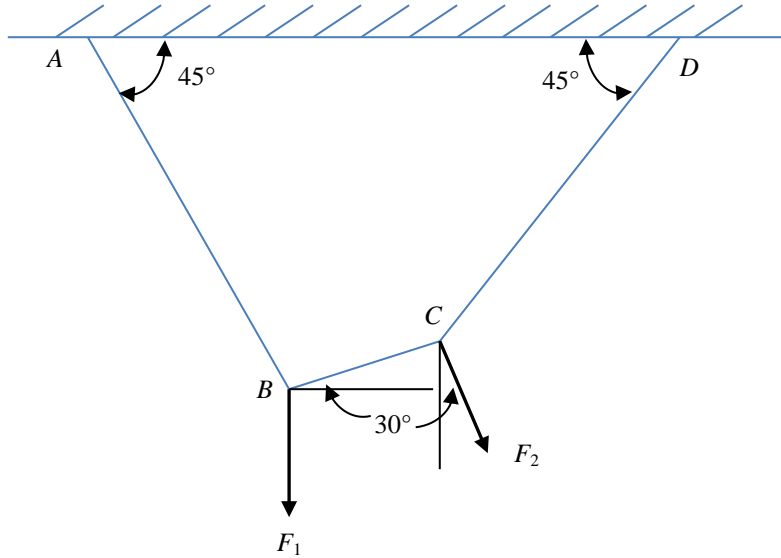


2. The cable supports two independently and normally distributed forces $F_1 \sim N(25, 2^2)$ N and $F_2 \sim N(20, 1.5^2)$ N shown below. If the maximum tension of the cable is 25 N, determine the reliability of the system.



Answer

$$R = 92.53\%$$