

CIE CAL FM P23 2019-10 Q7

The time, T days, before an electrical component develops a fault has

distribution function F given by $F(t) = \begin{cases} 1 - e^{-at} & t \geq 0, \\ 0 & \text{otherwise,} \end{cases}$

where a is a positive constant. The mean value of T is 200.

(i) Write down the value of a . [1]

(ii) Find the probability that an electrical component of this type develops a fault in less than 150 days. [2]

A piece of equipment contains n of these components, which develop faults independently of each other. The probability that, after 150 days, at least one of the n components has not developed a fault is greater than 0.99.

(iii) Find the smallest possible value of n . [4]

$$\begin{aligned} \text{ci)} \quad 1 - e^{-200a} &= \frac{1}{2} \\ 1 - \frac{1}{e^{200a}} &= \frac{1}{2} \\ \frac{1}{e^{200a}} &= \frac{1}{2} \\ e^{200a} &= 2 \\ \ln 2 &= 200a \\ a &= \frac{\ln 2}{200} \end{aligned}$$

Maths As Cie 2015 9712

Linda Bostock,Sue Chandler



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