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### An Introduction to Reliability and Maintainability Engineering

CHAPTER 13 13.1 MTTF  $r_n = 1800 \times 8 \times 15 \text{ hrs}$ ,  $\lambda = E \text{ MTTF}^{-1}$

Test Time (t)..... hrs =  $\frac{1}{\lambda} = \frac{1}{E \text{ MTTF}^{-1}} = \text{MTTF}$

$\lambda = \frac{1}{1800 \times 15} = 3.7 \times 10^{-5} \text{ per hr}$

$\lambda = \frac{1}{1800 \times 15} = 3.7 \times 10^{-5} \text{ per hr}$  3 or 4 failures 13.2 a)  $T_{tr} = \frac{1}{\lambda}$

$\lambda = \frac{1}{1800 \times 15} = 3.7 \times 10^{-5} \text{ per hr}$  1 1 10 20 10 912 4760 9120

13880 (t) hrs MTTF =  $T_r \text{ hrs} \pm = 13880 \text{ hrs}$  b) E Test Time r

MTTF ...

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Reliability growth models allow estimation of resources (particularly testing time) necessary before a system will mature to meet those goals (Meeker and Escobar 1998). Maintainability models describe the time necessary to return a failed repairable system to service. They are usually the sum of a set of models describing different aspects of the maintenance process (e.g., diagnosis, repair, inspection, reporting, and

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In measurement science it means repeatability or consistency 1.

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Maintainability: A Key to Effective Serviceability and Maintenance Management. Wiley. ISBN 978-0-471-59132-0. Ebeling, Charles E. (2019). An Introduction to Reliability and Maintainability Engineering (3rd ed.). Waveland Press. ISBN 978-1-4786-3933-6. Patton, Joseph D. (2005). Maintainability & Maintenance Management (4th ed.). Patton Consultants.

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