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Measure of  
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(Mean Time To  
Failure) DevOps  
Vs. SRE:  
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small 3010 3017  
2688 medium 2547  
2660 2524 large  
2261 2405 2356.

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The largest MTTF per dollar cost occurs for R 2 and the small fan. The system reliability is:

$$e^{-\lambda} = (10000)^{-1/1.7} = 0.69762 \times 10^{-8}$$

MTTF =  $1 / (10000)^{-1/1.7} = 10$ .

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management has  
gained a  
relevant role,  
both as a tool  
in support of  
plant design and  
as an  
indispensable  
means for  
emergency  
planning in  
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situations.



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CHAPTER 13 13.1

$MTTF = \frac{r}{n} =$

$\frac{1800}{8} = 225 \text{ hrs,}$

$= E \cdot MTTF = n \cdot n \cdot n \cdot r$

Test Time

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O Q P = + + L N  
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1 1 1 1800 1 15  
1 8 1800 725  
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MTTF ( ) ( ) . \*/  
/ = ? = ? = ? ?  
? 1 15 1 3638  
500 1800 3 or 4  
failures 13.2 a)  
T t n r t t i i  
r r i i = + ? =

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912 4760 9120

13880 ( ) ( ) hrs

MTTF = T r hrs ±

= = 13880 10

1388 b) E Test

Time r MTTF ...

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Reliability  
Engineering is a  
key component in  
the product

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design and  
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Basic math and  
Excel skill are  
helpful An  
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manufacturing is  
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Business School,  
April 2012) 12.

$$= 0.067 \times 0.075$$

$$= 0.005025. \text{ For}$$

the OR gate we

add the

probabilities to

get the

probability of

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the top event:  
Prob (Loss of  
electric power)  
= Prob (Loss of  
a.c. power) +  
Prob (Loss of  
d.c power) =  
0.005025 + 0.005  
= 0.010025.

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?Generally  
defined as the  
ability of a  
product to  
perform, as  
expected, over  
certain time.

?Formally

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defined as the probability that an item, a product, piece of equipment, or system will perform its intended function for a stated period of time under specified operating conditions.



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the chapter is  
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Section 4.1  
defines basic  
concepts of  
reliability,  
like functions,  
failures, and

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failure modes  
and effects.

Section 4.2  
introduces  
reliability  
measures and  
lifetime models  
with focus on  
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