

**Corrections**  
**to**  
**Modeling, Analysis, Design, and Control of**  
**Stochastic Systems**

As of Mar 1, 2001.

Note:

- p. 7, l. 10 denotes line 10 from the top on page 7.
- p. 7, l. 10b denotes line 10 from the bottom on page 7.

1. p. vii, l. 4. Replace "Graphical User Interface." by:  
Graphical User Interface provided in a software package called  
MAXIMGUI.
2. p. vii, l. 8. Replace the sentence "The software and any relevant information can be downloaded from ftp://ftp.mathwork.com/pub/books/kulkarni." by the following two sentences:  
PC users can download the zip files containing the MAXIM and the MAXIMGUI software from  
ftp://ftp.mathworks.com/pub/books/kulkarni/MAXIM.zip  
ftp://ftp.mathworks.com/pub/books/kulkarni/MAXIMGUI.zip  
UNIX users can download the tar files containing the MAXIM and the MAXIMGUI software from  
ftp://ftp.mathworks.com/pub/books/kulkarni/MAXIM.tar  
ftp://ftp.mathworks.com/pub/books/kulkarni/MAXIMGUI.tar
3. p. 131, Example 5.22: Replace the entire statement in the example by:  
The DTMC of Example 5.20 is reducible since this DTMC cannot visit state 3 from states 1 or 2.
4. p. 131, l. 1b, insert "of" before "d".
5. p. 145, l. 13, replace  $0 \leq p, q \leq 1$  by  $0 < p, q < 1$ .
6. p. 151, l. 4b, replace "expected" by "long run expected".
7. p. 162, l. 8b, replace  $\frac{\lambda_1}{\lambda} \lambda e^{-\lambda t}$  by  $\frac{\lambda_1}{\lambda} e^{-\lambda t}$ .
8. p. 163, l. 6b, replace  $r$  by  $n$ .
9. p. 163, l. 1b, replace  $\lambda_k$  by  $\lambda_n$ .

10. P. 170, l. 7, replace  $K$  by  $M$ .
11. p. 170, l. 9, replace  $\min(i, M)$  by  $i$ .
12. p. 171, l. 12, insert “an” after “of”.
13. p. 173, l. 16b, insert “Demands that cannot be immediately satisfied are lost.” after “ $k$ .”
14. p. 198, l. 11, replace  $X_0$  by  $X(0)$ .
15. p. 209, problem 6.7: delete the numbering on equation number (6.72)
16. p. 209, problem 6.8: delete the numbering on equation number (6.73)
17. p. 210, problem 6.9: delete the numbering on equation number (6.74)
18. p. 210, problem 6.17: replace CTMCs by CTMC
19. p. 210, problem 6.18: replace CTMCs by CTMC
20. p. 211, problem 6.19: replace CTMCs by CTMC
21. p. 292, Conceptual Problem 8.5: Replace  $\frac{1-\rho}{\rho}$  by  $\frac{\rho-1}{\rho}$
22. p. 354, answer to computational problem 1.25 should be  $2/3$ .