## Contents

Foreword Preface Acknowledgments	v vii xv
1. Easy Life and Good Times	1
<pre>1: Probability 2: Life Times</pre>	2 9
3: Prolongation of Life Times	22 29
4: Bus Problem 5: Combinations of Life Times	34
6: Extreme Life Times	42
7: Great Expectations	48 63
8: Double Scotch 9: How Normal Is Normal?	69
10: When in Doubt, Approximate!	79
Problems	84
2. Be Discreet with Discrete	113
<pre>11: Bernoulli Trials 12: Applications of Binomial 13: Geometric Waiting Time 14: Poisson Distribution 15: Accidents Just Happen Problems</pre>	114 123 128 134 139 145
3. To Renew or not to Renew	161
16: Renewals 17: Renewal Equation 18: Jumping Rabbit Problems	162 169 178 186
4. Markovian Dance	193
<pre>19: Poisson Input 20: It Is Easy to Learn 21: On-Off Transitions 22: Queueing 23: Waiting Time 24: Birth Right 25: Birth and Death Problems</pre>	195 203 210 218 228 236 245 259
Appendix A Formulae Appendix B Tables Appendix C Suggestions for Further Reading Index	269 275 281 283