Contents

1 Matching Healthcare Resources to Patient Needs ......................... 1
   Randolph Hall

2 Capacity Planning .......................................................... 11
   Martin Utley and Dave Worthington

3 Nurse Scheduling ............................................................ 31
   Gino J. Lim, Arezou Mobasher, Laleh Kardar and Murray J. Cote

4 Patient Appointments in Ambulatory Care ................................. 65
   Diwakar Gupta and Wen-Ya Wang

5 Operating Theatre Planning and Scheduling ............................... 105
   Erwin W. Hans and Peter T. Vanberkel

6 Appointment Planning and Scheduling in Outpatient
   Procedure Centers .......................................................... 131
   Bjorn Berg and Brian T. Denton

7 Human and Artificial Scheduling System for Operating Rooms ...... 155
   Pieter Stepaniak and Ronald van der Velden

8 Bed Assignment and Bed Management ..................................... 177
   Randolph Hall

9 Queuing Networks in Healthcare Systems ................................. 201
   Maartje E. Zonderland and Richard J. Boucherie
10 Medical Supply Logistics.............................. 245
   Manuel D. Rossetti, Nebil Buyurgan and Edward Pohl

11 Operations Research Applications in Home Healthcare........ 281
   Ashlea Bennett Milburn

12 A Framework for Healthcare Planning and Control............. 303
   Erwin W. Hans, Mark van Houdenhoven and Peter J. H. Hulshof

About the Authors................................. 321

Index............................................. 329
Handbook of Healthcare System Scheduling
Hall, R. (Ed.)
2012, X, 334 p., Hardcover
ISBN: 978-1-4614-1733-0