

Contents

1 Editorial: Sustainable Supply Chains	1
Tonya Boone, Vaidyanathan Jayaraman and Ram Ganeshan	
2 By the Numbers: A Visual Chronicle of Carbon Dioxide Emissions	9
Tonya Boone and Ram Ganeshan	
3 Sustainable Supply Chains for Bio-Based Fuels and Chemicals	29
Joseph B. Powell, Paul M. Ayoub, Sachin Kapila, Alex P. R. Nevill and Grahame Y. Buss	
4 Organizing for Sustainability: Exploratory Analysis of the Healthcare Industry	37
Tonya Boone	
5 Supply Chain Network Design of a Sustainable Blood Banking System	49
Anna Nagurney and Amir H. Masoumi	
6 From a Caged Tiger to a Sauntering Elephant: Sustainability as a Driver for Profit and Innovation in Indian IT Companies	73
Vaidyanathan Jayaraman, Mandar Dattatray Malshe and Ajay Anandnarayan	
7 Development of a LEED Certified Building—A Case Study	97
Rex M. Holmlin	
8 A Primer on E-Waste	107
Tonya Boone and Ram Ganeshan	
9 Product Take-Back Legislation and Its Impact on Recycling and Remanufacturing Industries	129
Gökçe Esenduran, Eda Kemahlioğlu-Ziya and Jayashankar M. Swaminathan	

10 Product Disposition Decisions on Closed-Loop Supply Chains	149
Gilvan C. Souza	
11 Product Labeling, Consumer Willingness to Pay, and the Supply Chain	165
Robert L. Hicks	
12 Carbon Foot Print of Products—Supply Chain Approach	175
Tonya Boone, Ram Ganeshan and Vaidyanathan Jayaraman	
13 Making the Business Case for Sustainability Related Investments Through a Single Financial Metric	193
Mark Ferguson	
14 Incorporating Life-Cycle Economic and Environmental Factors in Managerial Decision-Making	201
Ravi Subramanian	
15 Performance Measurement and Evaluation for Sustainable Supply Chains using Rough Set and Data Envelopment Analysis	223
Chunguang Bai and Joseph Sarkis	
Index	243

Sustainable Supply Chains

Models, Methods, and Public Policy Implications

Boone, T.; Jayaraman, V.; Ganeshan, R. (Eds.)

2012, X, 246 p., Hardcover

ISBN: 978-1-4419-6104-4