## Contents

1 Mass Customization in the Building and Construction Industry....... 1
Kim Noergaard Jensen, Kjeld Nielsen, Thomas Ditlev Brunoe,
and Søren Munch Lindhard

2 Reconfiguring Variety, Profitability, and Postponement
for Product Customization with Global Supply Chains............... 13
Martin Bonev, Anna Myrodia, and Lars Hvam

3 Mass Customization Challenges of Engineer-to-Order
Manufacturing......................................................................................... 27
Maria K. Thomassen and Erlend Alfnes

4 An Open-Source Model of Collaboration and Customization
in Architecture.......................................................................................... 41
Carlo Carbone and Basem Eid Mohamed

5 Information-Driven Customization: A Profile-Matching Model....... 59
Basem Eid Mohamed and Carlo Carbone

6 The Potential of Product Customization Using Technologies
of Additive Manufacturing........................................................................ 71
Roland Lachmayer, Paul Christoph Gembariski,
Philipp Gottwald, and R. Bastian Lippert

7 Conceptual Model for Developing Platform-Centric
Production Architectures........................................................................... 83
Jacob Bossen, Thomas Ditlev Brunoe, Mads Bejlegaard,
and Kjeld Nielsen

8 From ETO to Mass Customization: A Two-Horizon ETO
Enabling Process....................................................................................... 99
Aldo Duchi, Filippo Tambrurini, Daniele Parisi, Omid Maghazei,
and Paul Schönsleben
9 Utilization of Mass Customization in Construction and Building Industry
Kjeld Nielsen, Thomas Ditlev Brunoe, Kim Noergaard Jensen, and Ann-Louise Andersen

10 Challenges in Choice Navigation for SMEs
Kjeld Nielsen, Thomas Ditlev Brunoe, Lars Skjelstad, and Maria Thomassen

11 Machine-Part Formation Enabling Reconfigurable Manufacturing Systems Configuration Design:
Line Balancing Problem for Low Volume and High Variety
Mads Bejlegaard, Thomas Ditlev Brunoe, Kjeld Nielsen, and Jacob Bossen

12 Engineering Change Management and Transition Towards Mass Customization
Simon Haahr Storbjerg, Thomas Ditlev Brunoe, and Kjeld Nielsen

13 The Evolutionary Process of Product Configurators
Paul Blažek, Monika Kolb, Clarissa Streichsbier, and Simone Honetz

14 Co-creation and Design Thinking to Envision More Sustainable Business Models: A Foresight Design Approach for Organizational Sustainability of SME Manufacturers
Alexandre Joyce

15 Mass Customization in SMEs: Literature Review and Research Directions
Stig B. Taps, Thomas Ditlev Brunoe, and Kjeld Nielsen

16 Reconfigurable Manufacturing Systems in Small and Medium Enterprises
Thomas Ditlev Brunoe, Ann-Louise Andersen, and Kjeld Nielsen

17 KBE-Modeling Techniques in Standard CAD-Systems:
Case Study—Autodesk Inventor Professional
Paul Christoph Gembarski, Haibing Li, and Roland Lachmayer

18 A Business Typological Framework for the Management of Product Complexity
Paul Christoph Gembarski and Roland Lachmayer

19 Cognitive Computing and Managing Complexity in Open Innovation Model
Robert J. Freund

20 Combining Configurator 2.0 Software with Designcrowdfunding
Matthias Kulcke
<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Current Challenges for Mass Customization on B2B Markets</td>
<td>269</td>
</tr>
<tr>
<td></td>
<td>Leontin K. Grafmüller and Hagen Habicht</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Does the Size of a Fashion Model on a Retailer’s Website Impact the Customer Perceived Attractiveness of the Model and Purchase Intention? The Role of Gender, Body Satisfaction and Congruence</td>
<td>281</td>
</tr>
<tr>
<td></td>
<td>Anik St-Onge, Aurelie Merles, Florian Pichonneau, and Sylvain Sénécal</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>“La Chispa de la Ciudad de México”: Co-creation of Organizational Innovations and Its Implications for Managing Innovation</td>
<td>287</td>
</tr>
<tr>
<td></td>
<td>Hans Lundberg, Ian Sutherland, Birgit Penzenstadler, Paul Blažek, and Hagen Habicht</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Equity Crowdfunding and the Online Investors’ Risk Perception: A Co-created List of Web Design Guidelines for Optimizing the User Experience</td>
<td>301</td>
</tr>
<tr>
<td></td>
<td>Sandrine Prom Tep, Sylvain Sénécal, François Courtemanche, and Valerie Gohier</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Lean Customisation and Co-creation Supplying Value in Everyday Life</td>
<td>313</td>
</tr>
<tr>
<td></td>
<td>Alexander Tsigkas and Antonia Natsika</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Modular Standard in Independent Automotive Aftermarket</td>
<td>329</td>
</tr>
<tr>
<td></td>
<td>Thomas Kampschulte</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Identification of Profitable Areas to Apply Product Configuration Systems in Engineer-To-Order Companies</td>
<td>335</td>
</tr>
<tr>
<td></td>
<td>Katrin Kristjansdottir, Lars Hvam, Sara Shafiee, and Martin Bonev</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Goal-Oriented Data Collection Framework in Configuration Projects</td>
<td>351</td>
</tr>
<tr>
<td></td>
<td>Sara Shafiee, Lars Hvam, and Katrin Kristjansdottir</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Minecraft and the Resource-Scarcity Advantage</td>
<td>367</td>
</tr>
<tr>
<td></td>
<td>F. Xavier Olleros</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Design and Innovation Beyond Methods</td>
<td>379</td>
</tr>
<tr>
<td></td>
<td>Caroline Gagnon and Valérie Côté</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Co-creation of Experiences in Retail: Opportunity to Innovate in Retail Business</td>
<td>391</td>
</tr>
<tr>
<td></td>
<td>Ron Journée and Marcel Weber</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Proximity Marketing as an Enabler of Mass Customization and Personalization in a Customer Service Experience</td>
<td>405</td>
</tr>
<tr>
<td></td>
<td>Nataly Levesque and Harold Boeck</td>
<td></td>
</tr>
</tbody>
</table>
33 Investigating the Impact of Product Volume and Variety on Production Ramp-Up ................................................................. 421
Ann-Louise Andersen, Mads Bejlegaard, Thomas Ditlev Brunoe, and Kjeld Nielsen

34 Implementing ‘Design for Do-It-Yourself’ in Design Education ........ 435
Jan Willem Hoftijzer

35 Apparel Technology Integration and Development for Purchase Activated Manufacturing ................................................. 451
Muditha Senanayake, Peter Kilduff, and Bill Grier

36 Co-design Visual Displays in Virtual Stores: An Exploration of Consumer Experience ................................................................. 459
Juanjuan Wu, Natasha Thoreson, Jayoung Koo, and Angella Kim

37 Seven Steps Manufacturers Must Take to Begin Offering Mass Customization to Their Customers........................................ 463
Jocelyn Bellemare and Serge Carrier