## Contents

**Introduction – Design Thinking Is Mainly About Building Innovators**
Christoph Meinel and Larry Leifer  

<table>
<thead>
<tr>
<th>Part I Assessing Influential Factors in Design Thinking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empathy via Design Thinking: Creation of Sense and Knowledge</td>
</tr>
<tr>
<td>Developing Novel Methods to Assess Long-Term Sustainability of Creative Capacity Building and Applied Creativity</td>
</tr>
<tr>
<td>The Personal Trait Myth: A Comparative Analysis of the Innovation Impact of Design Thinking Tools and Personal Traits</td>
</tr>
<tr>
<td>Theaters of Alternative Industry: Hobbyist Repair Collectives and the Legacy of the 1960s American Counterculture</td>
</tr>
</tbody>
</table>

**Part II Empowering Team Collaboration**

| Assessing the Development of Design Thinking: From Training to Organizational Application | 73 | Adam Royalty, Karen Ladenheim, and Bernard Roth |
| TeamSense: Prototyping Modular Electronics Sensor Systems for Team Biometrics | 87 | Joel Sadler and Larry Leifer |
Tele-Board MED: Supporting Twenty-First Century Medicine for Mutual Benefit ......................................................... 101
Julia von Thienen, Anja Perlich, and Christoph Meinel

Peer and Self Assessment in Massive Online Classes ............... 131
Chinmay Kulkarni, Koh Pang Wei, Huy Le, Daniel Chia,
Kathryn Papadopoulos, Justin Cheng, Daphne Koller, and Scott R. Klemmer

Tagging User Research Data: How to Support the Synthesis of Information in Design Teams ........................................ 169
Raja Gumienny, Steven Dow, Matthias Wenzel, Lutz Gericke,
and Christoph Meinel

Part III Supporting Information Transfer

Embodied Design Improvisation: A Method to Make Tacit Design Knowledge Explicit and Usable ........................................ 195
David Sirkin and Wendy Ju

Connecting Designing and Engineering Activities II ................... 211
Thomas Beyhl and Holger Giese

How Cost Reduction in Recovery Improves Performance in Program Design Tasks ....................................................... 241
Bastian Steinert and Robert Hirschfeld

DT@Scrum: Integrating Design Thinking with Software Development Processes .......................................................... 263
Franziska Häger, Thomas Kowark, Jens Krüger, Christophe Vetterli,
Falk Übernickel, and Matthias Uflacker
Design Thinking Research
Building Innovators
Plattner, H.; Meinel, C.; Leifer, L. (Eds.)
2015, VIII, 289 p. 121 illus., Hardcover
ISBN: 978-3-319-06822-0