

Table of contents

- **Notes on contributors** (p. x)
- **Preface** (p. xxi)
- **Introduction: Vitruvius Digitalis** (p. 1)
- **1 The Orders of the Non-Standard: Towards a Critical Structuralism** (p. 17)
- **2 Ten Years of Folding** (p. 35)
- **Acknowledgments** (p. xxiv)
- **Theory: A Universe of Discourse** (p. 11)
- **Form: From Composition to Generation** (p. 55)
- **Performance / Generation: From Analysis to Informed Synthesis** (p. 97)
- **6 Computing the Performative** (p. 103)
- **7 Laws of Form** (p. 113)
- **3 The Seduction of Innovative Geometries** (p. 47)
- **4 Animate Form** (p. 63)
- **5 Continuity and Rupture** (p. 87)
- **Parametrics: The Design of Multiplicities** (p. 137)
- **9 Parametric Patterns** (p. 143)
- **11 Dimensions** (p. 171)
- **Morphogenesis: Bio-Inspired Evolutionary Design** (p. 191)
- **12 Material Systems, Computational Morphogenesis and Performative Capacity** (p. 195)
- **8 Structured Becoming: Evolutionary Processes in Design Engineering** (p. 131)
- **10 How Designers Use Parameters** (p. 153)
- **13 Evolution and Computation** (p. 209)
- **Tectonics: From Material to Material Tectonics** (p. 221)
- **14 Informed Tectonics in Material-Based Design** (p. 227)
- **15 Cecil Balmond: The Natural Philosopher as Builder** (p. 251)
- **16 The Structure of Vagueness** (p. 263)
- **Materialization: Materialization Processes and Design Technologies** (p. 277)
- **17 Introduction to Versioning** (p. 281)
- **18 Materialising Complexity** (p. 287)
- **19 Design Robotics: A New Paradigm in Process-Based Design** (p. 293)
- **Material Fabrication: Design Technologies of Digital Materiality** (p. 299)
- **20 Towards an Extended Performative Materiality-Interactive Complexity and the Control of Space** (p. 305)
- **Responsive / Interactive / Dynamic** (p. 327)
- **21 Material Ecology** (p. 319)
- **22 Toward Responsive Architectures** (p. 333)
- **23 Move that Body: Building Components are Actors in a Complex Adaptive System** (p. 345)
- **Epistemology: Disciplinary Knowledge of Digital Design in Architecture** (p. 361)
- **24 Architectural Geometry as Design Knowledge** (p. 367)
- **25 Paramaterize** (p. 375)
- **26 Cultural Defence** (p. 383)
- **General bibliography** (p. 407)

- **Index** (p. 419)