

7
Introduction
Nikola Doll

ESSAYS

13
Image-Active Design Forms
of Animals and Humans
Horst Bredekamp

23
Immateriality of Materials
Wolfgang Schäffner

33
History of Artificiality—Intersections
of Image, Knowledge, and Design
Matthias Bruhn

45
Ecologies of Making.
On Tim Ingold's General-Ecological
Critique of Worldmaking
Erich Hörl

55
Vital Materialism and
New Realism
Markus Gabriel

63
What are the Boundaries
of Problems?
A Dialog by *Jörg Petruschat*
and *Carola Zwick*

71
“Designerly Ways of Knowing.”
The Impertinent Promise
of an Epistemic Culture of Design
Claudia Mareis

FORM PROCESSES

81
Evolution and the Design Process:
The Myth of Optimization
Katharina Lee Chichester

89
The Botanization of Art
Sabine Thümmler

95
Nature, Knowledge, Design.
Moritz Meurer's Applied Botany
as Research in Design
Angela Bösl

103
Growth on Stone.
On Paul Klee's Mineral Collection
Claudia Blümle

111
Evolution as Designer?
Gerhard Scholtz

117
Form as a Given/Giving Form
Patricia Ribault

122
Catalog

ACTIVE MATTER

161
Active Matter Systems
Sebastian Vehlken

167
Inspired Mechanics.
Active Matter as Machine
and Structure
*Michael Friedman and
Karin Krauthausen*

173
The Bioinspired Design
of Materials
Peter Fratzl

179
Self-Forming Bodies—
Biological Coding
of Social Difference
Kerstin Palm

185
Self-Moved:
Shelter in Nature and Culture.
A Dialog between *Sandra Schramke*
and *Thomas Stach*

193
Grow | Degrow.
Becoming Materials between
Excess and Calculation
Carolin Höfler

201
Soft Technologies.
Active Textiles, Adaptive Surfaces,
and Tangible Interfaces
Zane Berzina

208
Catalog

IMAGE OPERATIONS

271
The Shape of the Gesture
Claus Pias

281
Digital Image Archive.
The Archiving and Coding
of Emotions
*Carl Martin Grewe and
Lisa Schreiber*

287
Gestalt vs. Cybernetics
Margarete Pratschke

295
“Look to Kill.”
On the Precarious Relationship
between Transparency
and Opacity in Helmet Displays
Moritz Queisner

301
In the Grid—Bodies between
Image and Action
Kathrin Friedrich

307
Big Data and the Technical Images
of Scenario Modeling
Reinhard Wendlner

316
Catalog

PROCESS DESIGN

351
Linear/Complex, *Max Winter*
Fiction, *Fabian Scholtz*
Questions, *Julia Blumenthal*
Decision, *Julia von Mende*
Experiment, *Henrike Rabe*
Chance, *Anika Schultz*
Border Crossings, *Michael*
Pogorzelskiy
Blurriness, *Sabine Hansmann*
Tools, *Anouk-Aimée Hoffmeister*
Model Image, *Fabian O. Scholz*
Integration, *Rebekka Lauer*
Bricolage and Italian
Lemon Ice, *Jan Wind*
Empty Space, *Katharina Walter*
Failure, *Anne Schmidt*
Obstacles, *Peter Koval*
Meticulousness, *Julia Meer*

APPENDIX

362
Works in the Exhibition
Selected Literature
Lenders
Picture Credits
Credits