1	Introduction	11
	,	

2	<b>Qualitative Traits</b>	17
21	Visual Principles 18	

- 2.2 Gestalt Laws and Urban Design 22
- 2.3 Another Approach to Qualitative Traits 2
- 2.4 Proportions 28
- 2.5 Proportions in Urban Design 29

### 3 General Organizing Principles 33

- 3.1 The Nongeometric Principle 33
- 3.2 The Geometric Principle 44

### 4 The Relationship of the Parts to the Whole 57

- 4.1 Additive Approach 57
- 4.2 Divisional Approach
- 4.3 Superimposition 66
- 4.4 Urban Design as a Single Entity (Grand Form) 70

#### 5 "Grid" Design Principle 77

The Regular Grid 77
The Irregular Grid 77
The Tilted Grid 77
The Deformed Grid 77
The Transformed Grid 77
The Superimposed Grid 77

#### 6 Urban Building Blocks 95

- 6.1 Classification of Urban Building Blocks 95
- 6.2 Standard Building Blocks 97

### 7 The Layout of Development Sites, Building Lots, and Urban Building Blocks 141

- 7.1 Principles for Combining Development Sites into Larger Urban Districts and Building Lots into Development Sites 141
- 7.2 Organizing Principles for Urban Building Blocks on the Building Lot 166

8.1	Complete Road Networks	177
8.2	Incomplete Road Networks	179
8.3	Combinations 179	

177

## 9 Urban Space 1899.1 Squares 1899.2 Street Spaces 2079.3 Green and Open Spaces 219

Road Systems

8

- 10 Representation in Urban Design 243
  10.1 Plans and Drawings Legal and Informal Plans 243
  10.2 Plan Types, Drawings, and Models in Urban Design 245
- 11 Parametric Design 311
  Oliver Fritz: Possible Applications in Urban Design
- 12 Examples of Best Practice 317
  12.1 Markus Neppl: Development of the Master Plan for HafenCity in Hamburg 319
  12.2 Rolo Fütterer: From Steelworks to City, Belval/Esch-sur-Alzette 327
  12.3 Leonhard Schenk: Citizens Build a City: The Südstadt District in Tübingen 333

# Appendix Bibliography 343 Project List 347 Authors 355