

Contents

1	Introduction: From Urban Nature Studies to Ecosystem Services ...	1
	Wilfried Endlicher	
2	Particulate Matter in the Urban Atmosphere: Concentration, Distribution, Reduction – Results of Studies in the Berlin Metropolitan Area	15
	Marcel Langner, Thomas Draheim, and Wilfried Endlicher	
3	Contamination of Urban Surface and Ground Water Resources and Impact on Aquatic Species	43
	Gunnar Nützmann, Claudia Wiegand, Valeska Contardo-Jara, Enrico Hamann, Vanessa Burmester, and Karen Gerstenberg	
4	Urban Soils in the Vadose Zone	89
	Gerd Wessolek, Björn Kluge, Alexandra Toland, Thomas Nehls, Eva Klingelmann, Yong Nam Rim, Beate Mekiffer, and Steffen Trinks	
5	Plants in Urban Settings: From Patterns to Mechanisms and Ecosystem Services	135
	Ingo Kowarik, Leonie K. Fischer, Ina Säumel, Moritz von der Lippe, Frauke Weber, and Janneke R. Westermann	
6	New Directions in Urban Avian Ecology: Reciprocal Connections between Birds and Humans in Cities	167
	Barbara Clucas, John M. Marzluff, Sonja Kübler, and Peter Meffert	
7	Urban Economy	197
	Elmar Kulke, Maike Brammer, Benjamin Otto, Daniela Baer, Julika Weiß, and Betka Zakirova	

8	Remote Sensing and Spatial Modelling of the Urban Environment ..	231
	Tobia Lakes, Patrick Hostert, Birgit Kleinschmit, Steffen Lauf, and Jan Tigges	
9	Social Dimensions of Urban Restructuring: Urban Gardening, Residents' Participation, Gardening Exhibitions	261
	Miriam Fritsche, Martin Klamt, Marit Rosol, and Marlies Schulz	
10	From L. Wirth to E. Wirth: Integrating Effects of the Organizational Division of Labour into the Study of Urban Life ...	297
	Harald A. Mieg	
11	Human Perception of Urban Environment and Consequences for its Design	305
	Elke van der Meer, Martin Brucks, Anna Husemann, Mathias Hofmann, Jasmin Honold, and Reinhard Beyer	
12	The Social Construction of City Nature: Exploring Temporary Uses of Open Green Space in Berlin	333
	Julia Lossau and Katharina Winter	
Index		347