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management are connected to and serve the urban development goals of sustainability, liveability, and resilience -- 3. Neighbourhoods are urban ecosystems nested within a larger urban ecosystem -- 4.

Neighbourhood landscapes generate landscape services which support human well-being -- 5. Neighbourhood landscapes form a value chain linking ecological processes to benefits for humans -- 6. Landscape design should be a transdisciplinary process translating normative goals into landscape changes -- 3.2 Conceptual framework for neighbourhood landscape design.

3.3 Principles and strategies for neighbourhood landscapes design -- Principle 1 - Neighbourhood landscapes are ecosystems connected to larger ecosystems -- Principle 2 - As part of a social-ecological system, social and ecological processes that interact in concert determine the character of neighbourhood landscapes -- Principle 3 - Neighbourhood landscapes are dynamic -- Principle 4 - Ecosystem functions remain important, even at the scale of neighbourhood landscapes -- Principle 5 - Heterogeneity in neighbourhood landscapes promotes biodiversity and ecosystem functions -- References -- PART II: Guidelines for Neighbourhood Landscape Design -- CHAPTER 4 Neighbourhood Landscape Development Process and Design Approaches -- 4.1 Neighbourhood landscape development process -- 4.2 Design approaches -- 4.2.1 Site-specific design -- 4.2.2 Integrated design -- 4.2.3 Participatory design -- 4.2.4 Biophilic design -- References -- CHAPTER 5 Designing Neighbourhood Landscapes with Landscape Services -- 5.1 Selection of landscape services for neighbourhoods -- 5.2 Tradeoffs in managing neighbourhood landscapes -- 5.3 Guidelines for neighbourhood landscape services -- 5.4 Soil -- S1 Nutrient cycling -- S2 Maintenance of soil quality -- S3 Erosion control -- 5.5 Water -- W1 Water cycling -- W2 Flood hazard mitigation -- W3 Stormwater and domestic wastewater treatment -- W4 Water for irrigation -- 5.6 Flora and fauna -- F1 Provision of habitat for biodiversity -- F2 Mosquito control -- F3 Fresh produce -- 5.7 Outdoor comfort -- C1 Heat mitigation -- C2 Noise abatement -- 5.8 People -- P1 Sense of place -- P2 Aesthetic values -- P3 Social relations -- P4 Environmental education -- P5 Recreation -- References -- Photo Credits -- Glossary -- Index.

## Sommario/riassunto

Neighbourhood landscapes are the quintessential forms of urban landscapes in most cities worldwide. They are pervasive, and hence experienced by the large majority of urban dwellers in their everyday life. More than parks, nature reserves or nature areas which are visited as destinations, neighbourhood landscapes provide the most immediate, frequent and convenient form of nature experienced by urban dwellers on a daily basis. They are also valuable as social spaces to bring residents together, foster social ties, and strengthen communities. Despite their importance, surprisingly little has been written to guide the planning and design of neighbourhood landscapes. This book is written for a specific purpose, to illustrate how the design of neighbourhood landscapes helps to deliver more benefits for urban dwellers and, at the same time, protect ecosystems that facilitate human well-being. This is in turn important as the synergistic relationships between human well-being, quality of biophysical urban environment, and health of human–environment interactions fundamentally underpin urban sustainability. The authors emphasize the role neighbourhood landscapes play in forging connections between people and nature, people and people, and people and place. Most of all, the book highlights the role of focusing on people in this endeavour, as it is only when landscapes are appropriately designed, and when people recognize these benefits, that they become valued

and protected as a community resource. This book is organized into two parts. Part 1 focuses on the conceptual foundations that underpin the neighbourhood landscape design guidelines being developed. In this section, the authors describe the key concepts relating functions of neighbourhood landscapes to the key urban development goals of sustainability, liveability and reliance; how they can be represented in a framework; and how a synthesis of current knowledge of cities as socio-ecological systems helps to identify principles that can guide the designing of neighbourhood landscapes. Part 2 is more application focused, and is centred on neighbourhood landscape design guidelines inspired by the concept of ecosystem services. The guidelines consist of design approaches, practical strategies, design targets and performance monitoring indicators for tracking the performance of neighbourhood landscapes. The book is written for readers in academia and design practice, and anyone who has a role in shaping neighbourhood landscapes for the benefit of urban dwellers.

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