

Revising Green Infrastructure: Concepts Between Nature and Design

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Revising Green Infrastructure: Concepts Between Nature and Design From CRC Press

Consider this …

- How do we handle the convergence of landscape architecture, ecological planning, and civil engineering?
- What are convenient terms and metaphors to communicate the interplay between design and ecology?
- What are suitable scientific theories and technological means?
- What innovations arise from multidisciplinary and cross-scalar approaches?
- What are appropriate aesthetic statements and spatial concepts?
- What instruments and tools should be applied?

Revising Green Infrastructure: Concepts Between Nature and Design examines these questions and presents innovative approaches in designing *green, landscape* or *nature* as infrastructure from different perspectives and attitudes instead of adding another definition or category of green infrastructure. The editors bring together the work of selected ecologists, engineers, and landscape architects who discuss a variety of theoretical aspects, research projects, teaching methods, and best practice examples in green infrastructure. The approaches range from retrofitting existing infrastructures through landscape-based integrations of new infrastructures and envisioning prospective landscapes as hybrids, machines, or cultural extensions.

The book explores a scientific functional approach in landscape architecture. It begins with an overview of green functionalism and includes examples of how new design logics are deducted from ecology in order to meet economic and environmental requirements and open new aesthetic relationships toward nature. The contributors share a decidedly cultural perspective on nature as landscape. Their ecological view emphasizes the individual nature of specific local situations.

Building on this foundation, the subsequent chapters present political ideas and programs defining social relations toward nature and their integration in different planning systems as well as their impact on nature and society. They explore different ways of participation and cooperation within cities, regions, and nations. They then describe projects implemented in local contexts to solve concrete problems or remediate malfunctions. These projects illustrate the full scope presented and discussed throughout the book: the use of scientific knowledge, strategic thinking, communication with municipal authorities and local stakeholders, design implementation on site, and documentation and control of feedback and outcome with adequate indicators and metrics.

Although diverse and sometimes controversial, the discussion of how nature is regarded in contrast to society, how human-natural systems could be organized, and how nature could be changed, optimized, or designed raises the question of whether there is a new paradigm for the design of social relations to nature. The multidisciplinary review in this book brings together discussions previously held only within the respective disciplines, and demonstrates how they can be used to develop new methods and remediation strategies.

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Editorial Review

Review

"… much of the current work in green infrastructure is either driven by science and technical considerations, and is devoid of design intelligence and the ability to address spatial issues, or it involves unrealistic design visions with little functional relevance or any connection to democratic processes. This book aims to address the gap between these two approaches through the presentation of a range of methods for designing green infrastructure and through the exploration of different relationships between design and ecology. It is dense with examples where authors work through both theoretical explorations, and also the application of ideas in planning and design for green infrastructure. This is an interesting contribution that broadens the professional literature on this topic."
?*Topos Magazine,* 2015

"This book is a comprehensive overview on green infrastructure from an interdisciplinary and international perspective. The contributions by leading experts offer a broad spectrum of theoretical knowledge, research concepts, design ideas, and strategic advice. For me, **Revising Green Infrastructure** serves as a reliable source of information and gives inspiration for future research as well as practice."
?Martin Prominski, Gottfried Wilhelm Leibniz Universität Hannover, Germany

"This book gathers perspectives on green infrastructure from engineers, ecologists, and landscape architects. The conversation is more theoretical than practical; it focuses on theories of greenness, research projects, teaching methods, and some best practice examples. Recurring themes include machine analogies, new paradigms, and the relationship between 'nature' and 'culture.' Overall, the book comes from an architectural perspective in which landscapes are seen as manifestations of grand ideas. The book is divided into four sections: function and process, culture and specificity, governance and instruments, and applied design. The first two sections are entirely theoretical. The last two contain some physical relationship to infrastructure, usually urban water conservation and wastewater treatment."
?*Ringgold, Inc. Book News*, February 2015

"This new book edited by Czechowski, Huack, and Hausladen brings together a collection of 21 papers from a range of 30+ researchers hailing from different countries and understandings of GI: chiefly from the USA and Europe but Haiti, Peru, China, and Vietnam are also represented."
?*International Journal of Urban Sustainable Development*, Vol. 7, Issues 2, 2015

Users Review

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