

1. Record Nr.	UNINA9910788623403321
Titolo	Cities of the future : towards integrated sustainable water and landscape management / / edited by Vladimir Novotny, Northeastern University, Boston, MA, Paul Brown, CDM, San Diego, CA. ; sponsored by National Science Foundation, Washington, DC, USA [and four others]
Pubbl/distr/stampa	London : , : IWA Publishing, , 2007
ISBN	1-78040-530-8
Descrizione fisica	1 online resource (452 p.)
Collana	Cities of the Future Series
Disciplina	363.61091732
Soggetti	Sustainable urban development Hydrology Landscape design Water resources development Sustainable development Cities and towns
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Proceedings of an International Workshop held July 12-14, 2006 in Wingspread Conference Center (Racine, WI).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Copyright; Contents; Acknowledgement; Wingspread Workshop Organizing Committee; Introduction to the book; Preface: Cities of the future: The fifth paradigm of urbanization; Part One: Urban Water Sustainability; 1. The importance of water infrastructure and the environment in tomorrow's cities; 2. Developments towards urban water sustainability in the Chicago metropolitan area; 3. Water and cities - overcoming inertia and achieving a sustainable future; Part Two: Impact of Extreme Events; 4. Hurricane realities, models, levees and wetlands 5. Water quality and public health - case studies of Hurricane Katrina and the December 2004 tsunami in ThailandPart Three: Monitoring, Urban Observatories and Total Mass Balance of Pollution in Cities; 6. Design of an environmental field observatory for quantifying the urban water budget; 7. Ecosystem approaches to reduce pollution in cities; 8. Field data requirements for monitoring and modelling of urban

drainage systems; Part Four: Hydrologic and Pollution Stresses, Response of Receiving Waters; 9. Ground water and cities 10. Framework for risk-based assessment of stream response to urbanization 11. Urban diffuse pollution and solutions in Japan; 12. Tools for the evaluation of stormwater management practices that provide ecological stability in urban streams; 13. Effluent dominated water bodies, their reclamation and reuse to achieve sustainability; Part Five: Integrated Solutions - Water and Landscape; 14. Reclaimed stormwater and wastewater and factors affecting their reuse; 15. Centralized and decentralized urban water, wastewater & storm water systems 16. Urban ecological design and urban ecology: An assessment of the state of current knowledge and a suggested research agenda 17. Green infrastructure for cities: The spatial dimension; 18. Strategic planning of the sustainable future wastewater and biowaste system in Goteborg, Sweden; 19. The role of low impact redevelopment/development in integrated watershed management planning: Turning theory into practice; 20. Automation and real-time control in urban stormwater management; Part Six: Implementing Future Urban Hydrological and Ecological Systems 21. Urban drainage at cross-roads: Four future scenarios ranging from business-as-usual to sustainability 22. Overcoming legal barriers to hydrological sustainability of urban systems; 23. Ecosystem resilience and institutional change: the evolving role of public water suppliers; 24. Financial, economic, and institutional barriers to "green" urban development: The case of stormwater; 25. Restoring the Charles River watershed using flow trading; Appendix; Index
