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Nota di contenuto	Cover -- Half Title -- Title Page -- Copyright Page -- Contributors -- Contents -- Preface -- How to Use This Publication -- Chapter 1 : Fundamentals of Small-Scale Hydrology for Modeling Low Impact Development Stormwater Controls -- Overview -- Introduction -- Overview of Low Impact Development Stormwater Controls -- Conservation Design Stormwater Controls -- Green Stormwater Infrastructure Controls -- Structural Stormwater Controls -- Hydrologic and Hydraulic Processes -- Infiltration -- Mechanisms Involved -- Computational Approaches -- Uniform Rate -- Horton Equation -- Richards Equation -- Green-Ampt Equation -- Van Genuchten Equation -- Macropore Effects -- HSPF Method -- Other Empirical Methods -- Evapotranspiration -- Mechanisms Involved -- Interception -- Depression Storage -- Surface Evaporation -- Plant Transpiration -- Computational Approaches -- Mass Transfer Method -- Energy Budget Method -- Penman Method -- McIlroy-Slatyer Method -- Penman-Montieth Method -- Pan Evaporation Approach -- Thornthwaite Method -- Blaney-Criddle Method -- Root Zone Methods -- Runoff Conveyance -- Subsurface Flow -- Subsurface Flow Representations -- Overland Flow Mechanisms Involved -- Computational Approaches -- Manning ' s Equation -- Kinematic Wave Equations -- Muskingum-Cunge Routing -- Dynamic Flow Equations -- Flow through Media -- Detention -- Mechanisms Involved -- Computational Approaches -- Linear Reservoirs -- Storage Indication/Modified Puls Method -- Runoff Generation -- Mechanisms Involved -- Computational Approaches -- Simple Method -- Infiltration-Based Methods -- Watershed-Based Methods -- Standard SCS CN Method -- Mishra and Singh SCS Methods -- Yu SCS Method -- WinSLAMM Method -- SCS Method Applications -- Conclusions -- References -- Chapter 2 : Modeling Approaches -- Overview. History and Overview of Hydrologic and Hydraulic Models -- Motivation for Low Impact Development Computations and Modeling -- Key Interrelated Decisions Regarding Model Construction and Calibration -- Incorporating Low Impact Development Stormwater Control Measures into Hydrologic and Hydraulic Models -- Complicating Factors -- References -- Chapter 3 : Summary of Sample Model Capabilities -- Overview -- HydroCAD -- Overview -- Summary Information -- Model Capabilities -- EPA SWMM -- Overview -- Summary Information -- Model Capabilities -- MIKE+ -- Overview -- Summary Information -- Model Capabilities -- WinSLAMM Version 10.3.4 -- Overview -- Summary Information -- Model Capabilities -- Western Washington Hydrology Model -- Overview -- Summary Information -- Model Capabilities -- MGSFlood -- Overview -- Summary Information -- Model Capabilities -- PCSWMM -- Overview -- Summary Information -- Low Impact Development Modeling Capabilities -- OpenHydroQual -- Overview -- Summary Information -- References -- Chapter 4 : Conclusions and Next Steps -- Overview -- Improving the State of the Art through Monitoring -- Representing Low Impact Development Stormwater Control Measures in Hydraulic Models -- Modeling Media Flow -- Outlet Controls on Filtering Systems -- Recommendations -- References -- Overview: Case Studies -- Case Study 1: Problem Statement -- Case Study 2 : Modeling Using MIKE+ -- Case Study 3 :

	Modeling Using WinSLAMM -- Case Study 4 : Modeling Using PCSWMM -- Case Study 5: Modeling Using WWHM -- Case Study 6 : Modeling Using MGS Flood -- Index.
Sommario/riassunto	Computational Methods in Low Impact Development Stormwater Control Measuresprovides a summary of current low impact development (LID) computation methods, focusing on the approaches that address hydrologic or hydraulic processes, such as runoff generation, infiltration, evapotranspiration, flow conveyance, and detention.