

Modeling Low Impact Development Alternatives with SWMM

Lewis A. Rossman

The U.S. Environmental Protection Agency's Office of Water is actively promoting the use of low impact development (LID) practices to help protect and restore water quality in urban and developing areas. Such practices support the concepts of green infrastructure and sustainability by managing stormwater close to its source so as to mimic a site's predevelopment hydrology. Computational tools are needed to objectively evaluate the hydrologic benefits of proposed LID controls. The Storm Water Management Model (SWMM) is one such tool that provides an attractive framework for modeling the long term performance of LID controls. However the latest version of SWMM (Rossman, 2008) has only a limited capability to rigorously model LID alternatives (Huber et al., 2006).

This chapter describes how SWMM's runoff engine and graphical user interface were extended to explicitly model specific types of LID controls, such as permeable pavement, bio-retention areas (e.g., rain gardens and street planters), rain barrels, infiltration trenches, and vegetative swales (see Figure 11.1). Each of these controls is represented as a unique LID object with its own set of properties. These objects can be placed within standard SWMM subcatchment areas in replicate fashion. Or they can occupy their own unique subcatchments that can be linked together to form a cascading sequence of LID controls. Time-dependent water balance models are used to describe the hydrologic performance of each individual LID unit. Several examples are used to illustrate how this approach was implemented within SWMM 5.

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© CHI 2010 www.chijournal.org ISSN: 2292-6062 (Formerly in Dynamic Modeling of Urban Water Systems, ISBN: 978-0-9808853-3-0)

Modeling Low Impact Development Alternatives With Swmm

Lei Shi



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New Trends in Urban Drainage Modelling Giorgio Mannina, 2018-08-31 This book addresses the latest research advances innovations and applications in the field of urban drainage and water management as presented by leading researchers scientists and practitioners from around the world at the 11th International Conference on Urban Drainage Modelling UDM held in Palermo Italy from 23 to 26 September 2018 The conference was promoted and organized by the University of Palermo Italy and the International Working Group on Data and Models with the support of four of the world's leading organizations in the water sector the International Water Association IWA International Association for Hydro Environment Engineering and Research IAHR Environmental Water Resources Institute EWRI ASCE and the International Environmental Modelling and Software Society iEMSs The topics covered are highly diverse and include drainage and impact mitigation water quality rainfall in urban areas urban hydrologic and hydraulic processes tools techniques and analysis in urban drainage modelling modelling interactions and integrated systems transport and sewer processes incl micropollutants and pathogens and water management and climate change The conference's primary goal is to offer a forum for promoting discussions amongst scientists and professionals on the interrelationships between the entire water cycle environment and society

Computer-Aided Modelling of Stormwater Systems Bartosz Szeląg, Adam Kiczko, Grzegorz Łagód, Marek Sokáč, Yvetta Velísková, Cecilia Bruni, Francesco Fatone, 2025-11-26 Computer Aided Modelling of Stormwater Systems deals with the construction of probabilistic models of rainfall and their use in the sizing of retention tanks The book discusses methods of sensitivity and uncertainty analysis of hydrodynamic models of urban catchments as well as proprietary calculation algorithms for the sizing of retention tanks considering the uncertainty of calibrated parameters and the variability of outflow hydrographs from the catchment and shape parameters This is important from the point of view of contemporary hydrology of urban catchments because it is the reliability of the identified parameters and their appropriate selection that determines the developed hydrodynamic model of the catchment so that it finds a practical application in sewage network management Also included are innovative graphical and analytical methods of tanks sizing whereby the shapes of hydrographs of the outflow from the catchment area are considered which is omitted in most of the methods used Hybrid models which are a combination of graphical and analytical methods with probabilistic models of rainfall are also presented which makes it possible to shorten the calculation time Finally the ability to implement computational algorithms in the field of sensitivity and uncertainty analysis can also be used when analysing catchments with implemented green infrastructure facilities Computer Aided Modelling of Stormwater Systems is aimed at doctoral students research workers and engineers as an introduction to modern methods of modelling stormwater and combined sewer networks together with the objects located on it such as retention tanks The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0

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at the newly founded Eastern Division Symposium Selected Water Resources Abstracts ,1991 **Water Research** ,1975
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Development Strategies to High Density Residential Area Tiantian Fan,2015 plans with different spatial pattern in the
 present study a high density residential area in Miami is chosen as the study site and four scenarios including
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 simulated by using Storm Water Management Model SWMM **EPA Publications Bibliography** ,1983 *Government*
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Unveiling the Magic of Words: A Report on "**Modeling Low Impact Development Alternatives With Swmm**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Modeling Low Impact Development Alternatives With Swmm**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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