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| Titolo                  | Decision Making with Uncertainty in Stormwater Pollutant Processes : A Perspective on Urban Stormwater Pollution Mitigation // by Buddhi Wijesiri, An Liu, Prasanna Egodawatta, James McGree, Ashantha Goonetilleke  |
| Pubbl/distr/stampa      | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2019   |
| ISBN                    | 981-13-3507-9  |
| Edizione                | [1st ed. 2019.]  |
| Descrizione fisica      | 1 online resource (88 pages)   |
| Collana                 | SpringerBriefs in Water Science and Technology, , 2194-7252  |
| Disciplina              | 551.488  |
| Soggetti                | Pollution<br>Water<br>Hydrology<br>Engineering geology<br>Geoengineering   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | Understanding uncertainty associated with stormwater quality modelling -- Pollutant build-up and wash-off processes variability -- Assessment of build-up and wash-off process uncertainty and its influence on stormwater quality modelling -- Case study – uncertainty assessment of heavy metals build-up and wash-off processes -- Practical implications and recommendations for future research.   |
| Sommario/riassunto      | This book presents new findings on intrinsic variability in pollutant build-up and wash-off processes by identifying the characteristics of underlying process mechanisms, based on the behaviour of various-sized particles. The correlation between build-up and wash-off processes is clearly defined using heavy metal pollutants as a case study. The outcome of this study is an approach developed to quantitatively assess process uncertainty, which makes it possible to mathematically incorporate the characteristics of variability in build-up and wash-off processes into stormwater quality models. In addition, the approach can be used to quantify process uncertainty as an integral aspect of stormwater quality predictions using common uncertainty |

analysis techniques. The information produced using enhanced modelling tools will promote more informed decision-making, and thereby help to improve urban stormwater quality.

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