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Urban Water Management

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Book Condition: New. Publisher/Verlag: Springer Netherlands | Science Technology and Service Delivery | Proceedings of the NATO Advanced Research Workshop, held in Borovetz, Bulgaria, 16-20 October 2002 | Urban population growth dramatically alters material and energy fluxes in the affected areas, with concomitant changes in landscape, altered fluxes of water, sediment, chemicals and pathogens and increased releases of waste heat. These changes then impact on urban ecosystems, including water resources and result in their degradation. Such circumstances make the provision of water services to urban populations even more challenging. Changing weather patterns, rising temperature and large variations in precipitation contribute to increased damages, caused by weather related disasters, including floods. One of the major contributors to increasing flood peaks are land use changes and particularly urban development. Consequently, there is a need to look for low environmental impact land development and to manage runoff in urban areas by storm water management. Much progress in the management of urban waters has been achieved in the most advanced jurisdictions, but much more remains to be done. In this respect the EC Water Framework Directive can provide some guidance. Urban water management issues are particularly important in the countries in transition...



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