

## Impacts of Climate Change on Rainfall Extremes and Urban Drainage Systems

### Impacts of Climate Change on Rainfall Extremes and Urban Drainage Systems

By P. Willems, J. Olsson, K. Arnbjerg-Nielsen,  
S. Beecham, A. Pathirana, I. Bulow Gregersen,  
H. Madsen and V.T.V. Nguyen



**Patrick Willems,  
Jonas Olsson,  
Karsten Arnbjerg-Nielsen,  
Simon Beecham,  
Assela Pathirana,  
Ida Bulow Gregersen,  
Henrik Madsen,  
Van-Thanh-Van Nguyen**

ISBN: 9781780401256

August 2012

252 pages, Paperback

**IWA Members Price:**

£66.75 / US\$ 120.15 / € 90.11

**Full Price:**

£89.00 / US\$ 160.20 / € 120.15

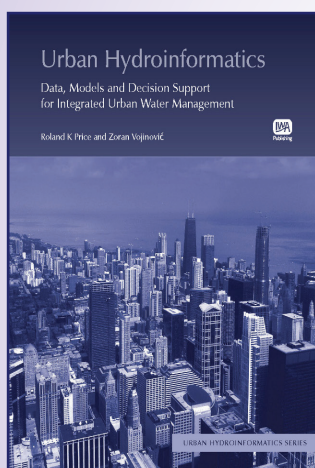
- Provides a state-of-the-art overview of existing methodologies and relevant results related to the assessment of the climate change impacts on urban rainfall extremes as well as on urban hydrology and hydraulics.

**Impacts of Climate Change on Rainfall Extremes and Urban Drainage Systems** provides a state-of-the-art overview of existing methodologies and relevant results related to the assessment of the climate change impacts on urban rainfall extremes as well as on urban hydrology and hydraulics. This overview focuses mainly on several difficulties and limitations regarding the current methods and discusses various issues and challenges facing the research community in dealing with the climate change impact assessment and adaptation for urban drainage infrastructure design and management.

#### **Table of contents:**

Introduction: Climate change simulations; Modeling of urban rainfall extremes in a stationary context ; Study of rainfall and urban runoff variability and trends in a non-stationary context; Statistical downscaling of rainfall extremes; Climate factors and changes in IDF relationships; Climate change impacts on urban drainage: results and regional differences; Needs for adaptation and flexible designs; Conclusion

# Urban Hydroinformatics: Data, Models and Decision Support for Integrated Urban Water Management



Roland Price and Zoran Vojinovic

**Urban Hydroinformatics: Data, Models and Decision Support for Integrated Urban Water Management** is an introduction to hydroinformatics applied to urban water management. It shows how to make the best use of information and communication technologies for manipulating information to manage water in the urban environment.

The book covers the acquisition and analysis of data from urban water systems to instantiate mathematical models or calculations, which describe identified physical processes. The models are operated within prescribed management procedures to inform decision makers, who are responsible to recognized stakeholders.

**ISBN: 9781780401362**

January 2011 552 Pages, Hardback

**IWA Members Price: £81.75 / US\$ 147.15 / € 110.36**

**Full Price: £109.00 / US\$ 196.20 / € 147.15**

**Student Price: £ 69.00 / US\$ 124.20 / € 93.15**

## ORDER FORM

### Step 1 - Order Details

You can also order online at [www.iwapublishing.com](http://www.iwapublishing.com)

Title	ISBN	Qty	Price	Total
Impacts of Climate Change on Rainfall Extremes and Urban Drainage Systems	9781780401256			
Urban Hydroinformatics: Data, Models and Decision Support for Integrated Urban Water Management	9781780401362			
*Postage: Please add £3.50/US\$5/€20 per title up to a maximum of £14/US\$20/€20 EU Customers should provide their VAT number, otherwise VAT will be charged where relevant			Books Total	
Vat No: _____			*P&P	
Prices, Extents & Publication Dates correct at time of printing and remain subject to change by IWA Publishing without prior notice			Total payable	

### Step 2 - Contact Details

IWA Membership Number: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Postcode/Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

☐ Tick here if you DO NOT wish to receive information on other relevant IWA Publications

### Step 3 - Payment Details

- ☐ Please send me a pro-forma invoice
- ☐ Cheque enclosed (payable to Portland Customer Services or to IWA Publishing in North America)
- ☐ I wish to pay by Credit/Debit Card (tick if appropriate):
- ☐ Visa/Delta ☐ American Express ☐ Mastercard ☐ Maestro

Card Number: \_\_\_\_\_

Valid From: \_\_\_\_\_ / Expiry Date: \_\_\_\_\_ / Issue No. \_\_\_\_\_

Name of Card Holder: \_\_\_\_\_

Signature: \_\_\_\_\_

### Step 4a-UK, Europe & Rest of World; send to:

Portland Customer Services  
Commerce Way, Colchester, Essex, CO2 8HP, UK  
Tel: +44 (0)1206 796 351  
Fax: +44 (0)1206 799 331  
Email: [sales@portland-services.com](mailto:sales@portland-services.com)

### Step 4b - North America; send to:

BookMasters, Inc.  
P.O. Box 388, Ashland, OH 44805, USA  
Tel: +1 800 247 6553 (+1 419 281 1802 from Canada)  
Fax: +1 419 281 6883  
Email: [order@bookmasters.com](mailto:order@bookmasters.com)

Please quote reference **ZWQIWACF12** when ordering

