

Hydrology in Practice

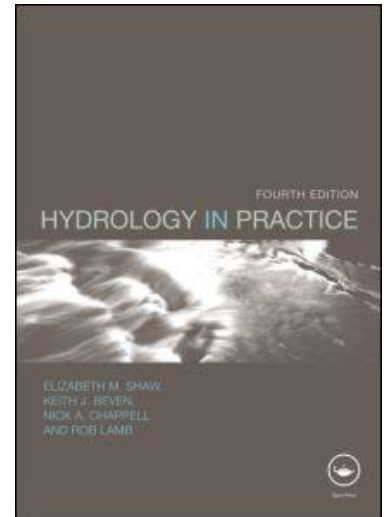
4th Edition

Elizabeth M. Shaw - Former Lecturer and Hydrologist

Keith J. Bevan - Lancaster Environment Centre, University of Lancaster, UK

Nick A. Chappell - Lancaster Environment Centre, University of Lancaster, UK

Rob Lamb - Consultant, JBA Consulting



About the book

Hydrology in Practice is an excellent and very successful introductory text for engineering hydrology students who go on to be practitioners in consultancies, the Environment Agency and elsewhere. It has never been superseded by any other text in this respect.

This fourth edition of *Hydrology in Practice* while retaining all that is excellent about its predecessor, by Elizabeth M. Shaw, replaces the material on the Flood Studies Report with an equivalent section on the methods of the Flood Estimation Handbook and its revisions. Other completely revised sections on instrumentation and modelling reflect the many changes that have occurred over recent years. The updated text has taken advantage of the extensive practical experience of the staff of JBA Consulting who use the methods described on a day-to-day basis. Topical case studies further enhance the text and the way in which students at undergraduate and MSc level can relate to it. The fourth edition will also have a wider appeal outside the UK by including new material on hydrological processes which also relate to courses in geography and environmental science departments. In this respect the book draws on the expertise of Keith J. Bevan and Nick A. Chappell who have extensive experience of field hydrological studies in a variety of different environments, and teaching undergraduate hydrology courses for many years.

Second and final year undergraduates (and MSc) students of hydrology in Engineering, Environmental Science and Geography Departments across the globe, as well as professionals in environmental protection agencies and consultancies, will find this book invaluable. It is likely to be the course text for every undergraduate/MSc hydrology course in the UK and in many cases overseas too.

Table of Contents

1. The Hydrological Cycle, Hydrometeorology and Climate **Part One: Hydrological Measurements** 2. Hydrometric Networks and Data-Logging 3. Precipitation 4. Evapotranspiration 5. Infiltration, Moisture and Groundwater 6. Hillslope Runoff Processes 7. River Flow 8. Water Quality **Part Two: Hydrological Analysis and Modelling** 9. Precipitation Analysis 10. Evapotranspiration Calculations 11. River Flow Analysis 12. Catchment Modelling 13. Flood Routing 14. Groundwater Models **Part Three: Applications** 15. Flood Mapping 16. Flood Risk Management 17. Water Resources 18. Urban 19. River Basin Management

July 2010 | 546 pages | Hardback: 978-0-415-37041-7 | £99.00 | Paperback: 978-0-415-37042-4 | £35.00

Order today!

Available at www.sponpress.com

ORDER YOUR BOOKS TODAY...

Qty	Title	ISBN	Price	Total

Your Details – Please use block capitals.

Name: _____

Email: _____

Organisation/School: _____

Address: _____

Zip/Postcode: _____ Country: _____

Telephone (including area code): _____

Sub-total _____

Postage _____

TOTAL _____

IF YOU ARE IN THE UK/REST OF WORLD:

Return this form via post to:
BUILT Environment Marketing, Spon Press,
FREEPOST SN926, 2 Park Square, Milton Park,
Abingdon, Oxon, OX14 4BR, UK

or
Telephone: +44 (0) 1235 400524
Fax: +44 (0) 20 7017 6699
E-mail: built_environment@routledge.com
Online: www.tandfbuiltenvironment.com

Postage:
5% of total order
(£1 min charge, £10 max charge)
Next day delivery +£6.50*

*We only guarantee next day delivery for orders received before noon.

IF YOU ARE IN THE US/CANADA/LATIN AMERICA:

Return this form via mail to:
Spon Press, 7625 Empire Drive
Florence, KY 41042, USA

or
Telephone: Toll Free 1-800-634-7064
(M-F: 8am-5:30pm EST)
Fax: Toll Free 1-800-634-4724
E-mail: built_environment@routledge.com
Online: www.tandfbuiltenvironment.com

Postage:
US: \$5.99 1st book;
\$1.99 for each additional book
Canada: Ground: \$7.99 1st book;
\$1.99 for each additional book
Expedited: \$15.99 1st book;
\$1.99 for each additional book
Latin America: Airmail: \$44.00 1st book;
\$7.00 for each additional book
Surface: \$17.00 1st book;
\$2.99 for each additional book

Sales Tax/GST:
Residents of AZ, CA, CO, CT, FL, GA, IL, IN, KY,
MA, MD, ME, MO, NJ, NY, PA, TN, TX, UT, VA
and CANADA please add local sales tax.
Canadian residents please add 5% GST.
We request all individual orders be pre-paid.

Methods of Payment

I have included my check/cheque, or money order (US and Canada only) for the full amount due, made payable to Taylor and Francis.

(UK/RoW only) Please send me a pre-payment invoice. My Reference Number is: _____

Please charge my debit/credit card: VISA MasterCard AMERICAN EXPRESS Maestro

Card number:

Name on card: _____ Start date: ____/____/____ Expiration date: ____/____/____

Issue No*: _____ (UK and Row only) Security number (last 3 digits of security number on back of card):

Signature: _____ Date: ____/____/____
order not valid without signature *Only if paying by Maestro

Prices and publication dates are subject to change without notice.

Taylor & Francis eBooks FOR LIBRARIES

ORDER YOUR
FREE 30 DAY
INSTITUTIONAL
TRIAL TODAY!

Over 22,000 eBook titles in the Humanities,
Social Sciences, STM and Law from some
of the world's leading imprints.

Choose from a range of subject packages
or create your own!

Key Features:

- ▶ Free MARC records
- ▶ COUNTER-compliant usage statistics
- ▶ Flexible purchase and pricing options

For more information, pricing enquiries or to order a
free trial, contact your local sales team.

UK and Rest of World: online.sales@tandf.co.uk
US, Canada and Latin America: e-reference@taylorandfrancis.com

www.ebooksubscriptions.com



Taylor & Francis
Taylor & Francis Group



eupdates Taylor & Francis Group

Want to stay one step ahead of
your colleagues?

Sign up today to receive free
up-to-date information on books,
journals, conferences and other news
within your chosen subject areas.

Visit www.tandf.co.uk/eupdates and
register your email address, indicating
your subject areas of interest.

If you have questions or concerns with any aspect of the
eUpdates service, please email eupdates@tandf.co.uk or
write to: eUpdates, Routledge, 2/4 Park Square,
Milton Park, Abingdon, Oxfordshire OX14 4RN, UK.

Routledge Paperbacks Direct

Responding to the changing needs of
academics and students, we have now made a
selection of our hardback publishing available in
paperback format. Available directly from
Routledge only and priced for individual
purchase, titles are added to the selection on a
regular basis.

Visit www.routledgepaperbacksdirect.com for a
full list of available titles.

Recommend key titles to your librarian today.

Ensure that your library has access to
all the latest publications.

Visit [www.routledge.com/info/librarian.
asp](http://www.routledge.com/info/librarian.asp) today and complete our online
Library Recommendation Form.



Routledge Revivals

Discover Past Brilliance...

www.routledge.com/books/series/Routledge_Revivals