

WATER RESOURCES PUBLICATIONS, LLC

2006 / 2007 Catalog



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Photographs from *ROUGHNESS
CHARACTERISTICS OF NEW ZEALAND
RIVERS*, PAGE 26



ABBREVIATIONS:

AIH - American Institute of Hydrology
ASAE - American Society of Agricultural Engineers
ASCE - American Society of Civil Engineers
ILRI - International Institute for Land Reclamation Improvement
IBM® is a registered trademark of International Business Machines Corporation.
IAHR - Intl. Assoc. for Hydraulic Research
MWCOG - Metropolitan Washington Council of Governments

NIWA - National Inst. of Water and Atmospheric Research LTD.
SCS - U.S. Soil Conservation Service
USDA - U.S. Department of Agriculture
USDI - US Department of the Interior
USGS - United States Geological Survey
HC - Hardbound cover
SC - Softbound cover
SPB - Spiralbound cover
USBR - US Bureau of Reclamation

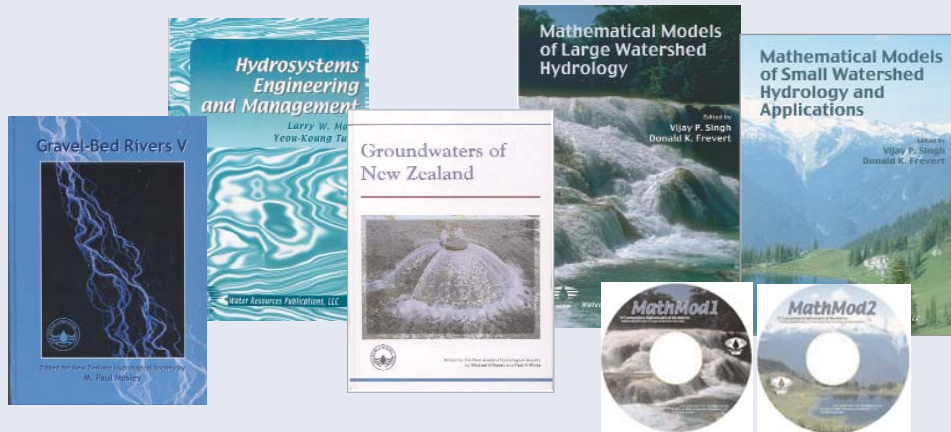
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NEW, RECENT, AND FORTHCOMING PUBLICATIONS



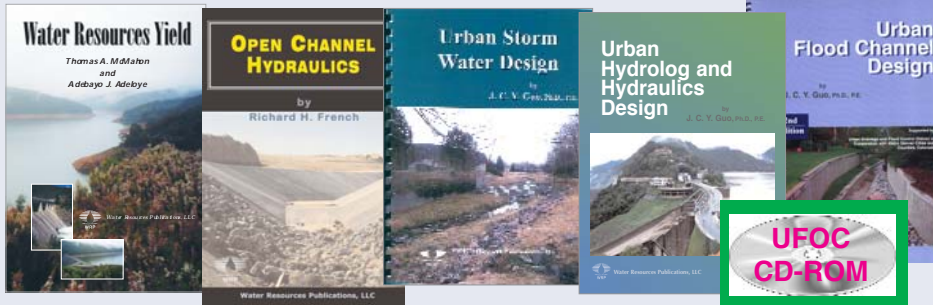
- See Page 5: **Advances in Water Monitoring Research** ~
 edited by T. Younos -- 244 pp, SC (Cat No. AWMR) **\$52**
- See Page 23: **Applying Geomorphology to Environmental Management**
 edited by D. J. Anthony, M. D. Harvey, J. B. Laronne, M.P. Mosley --
 492 pp, HC, ISBN 1-887201-33-5, (Cat. No. AGEM) **\$65**
- See Page 12: **Aquifer Test Data: Evaluation and Analysis** ~
 by Michael Kasenow -- 344 pp, SC, ISBN 1-887201-41-6, (Cat. No. ATD) ... **\$58**
- See Page 5: **Channel Flow Resistance: Centennial of Manning's Formula** ~ edit-
 ed by B. C. Yen -- SB, 459 pp, ISBN 0-918334-72-1, (Cat No. CFR)..... **\$65**
- See Page 6: **Coastal Environment and Water Quality** ~ edited by Y.J. Xu & V. J.
 Singh -- HC, 534 pp, ISBN-13: 978-1-887201-47-6 / ISBN-10: 1-887201-47-5
 (Cat No. CEWQ) **\$75**
- See Page 7: **Coastal Hydrology and Processes** ~ edited by V. J. Singh &
 Y.J. Xu -- HC, 524 pp, ISBN-13: 978-1-887201-46-9 / ISBN-10: 1-887201-46-7
 (Cat No. CHP) **\$75**
- See Page 8: **Concepts of Watershed Hydrology: An Auto-tutorial Nutshell**
Course ~ by P. E. Black -- SC, 30 pp, audiovisual CD-ROM,
 ISBN 1-887201-36-X, (Cat No. CWH) **\$35**
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NEW, RECENT, AND FORTHCOMING PUBLICATIONS



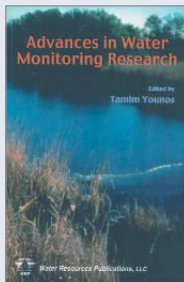
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642 pp, HC, ISBN 0-473-07486-9 (Cat No. GBR5) \$95
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- See Page 29: **Hydrosystems Engineering and Management** ~ by L. W. Mays & Yeou-Koung Tung - 550 pp, SC, Reprinted , ISBN 1-887201-32-7, (Cat. No. HEAM) \$58
- See Page 9: **Mathematical Models of Large Watershed Hydrology** ~ edited by V. P. Singh & Donald K. Frevert -- 914 pp, HC, ISBN 1-887201-34-3, (Cat. No. MMLW) \$95
- See Page 9: **MathMod1** ~ Compatible CD-ROM to MMLW, featuring 16 modeling programs, (Cat. No. MM1) \$55
- See Page 9: **Mathematical Models of Small Watershed Hydrology and Applications** ~ edited by V. P. Singh & Donald K. Frevert -- 914 pp, HC, ISBN 1-887201-35-1, (Cat. No. MMSW) \$95
- See Page 9: **MathMod2** ~ Compatible CD-ROM to MMLW, featuring 19 modeling programs, (Cat. No. MM2) \$55
- See Page 19: **Open Channel Hydraulics** ~ by Richard French -- 620 pp, SC, 1-887201-44-0, (Cat. No. OCH) \$78
- Forthcoming Publication: Street Hydraulics Inlet Sizing and Storm Sewer System Design** ~ by J. C. Y. Guo -- 100+ pp, SPB, (Cat. No. SHIS) \$
- See Page 27: **Urban Flood Channel Design** ~ by J. C. Y. Guo -- 170 pp, SPB, 1-887201-39-4, (Cat. No. UFCD) \$95
- See Page 28: **Urban Storm Water Design** ~ by J. C. Y. Guo -- 196 pp, SPB, ISBN 1-887201-37-8, (Cat. No. USWD) \$110

NEW, RECENT, AND FORTHCOMING PUBLICATIONS



- See Page 16 : **Unsteady Flow in Open Channels** ~ edited by K. Mahmood, V. Yevjevich, A. Miller -- CD-ROM 3 volume book in pdf format, 1400 pp, CD-ROM, ISBN 0-918334-09-8, (Cat. No. UFOCCD) **\$89**
- See Page 28: **Urban Hydrology and Hydraulics Design** ~ by J. C. Y. Guo -- aprox. 500 pp, PB, (Cat. No. UHHD) *To be published WRP Summer 2006* **\$**
- See Page 10: **Water Resources Yield** ~ by T. A. McMahon & A. J. Adedoye -- 234 pp, HC, ISBN 1-887201-38-6, (Cat. No. WRY) **\$65**

GENERAL HYDROLOGY, SURFACE HYDROLOGY



ADVANCES IN WATER MONITORING RESEARCH ~ Edited by Tamim Younos --

244 pp, SC, ISBN 1-887201-33-5 (Cat No. AWMR) **\$52**

Important current issues in Water Monitoring Science & Research, Policy, Information Transfer, & Technological Advances

This book provides an overview of the 21st century water monitoring technologies and their potential for water quality-protection. It is best suitable as a reference for water monitoring agencies and graduate studies in water monitoring research. Publ. WRP. ❖

CATCHMENT RUNOFF AND RATIONAL FORMULA ~ edited by B.C. Yen -- 176 pp, HC, (Cat. No. CRRF) **\$54**

Fifteen papers were selected from those presented at the International Conference for Centennial of Manning's Formula and Kuichling's Rational Formula. These papers deal with the conceptual challenge, the rational method, runoff coefficient, overland flow, and rainfall-runoff modeling. ISBN 0-918334-71-3. ❖

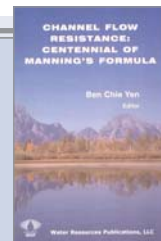
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Publ. 1991 Editor. ❖

CHANNEL FLOW RESISTANCE: CENTENNIAL OF MANNING'S FORMULA

edited by B.C. Yen
459 pp, SC, (Cat. No. CFR) **\$65**

Twenty papers selected and revised from those presented at the International Conference for Centennial of Manning's Formula and Kuichling's Rational Formula. These papers deal with the fundamental aspects and historical background of flow resistance, steep and gravel channels, composite and compound channels. ISBN 0-918334-72-1. Publ. 1991 Editor. ❖



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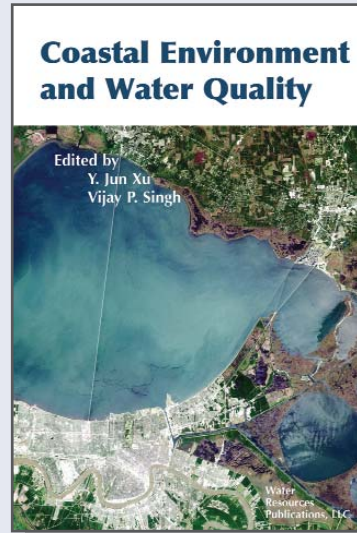
COASTAL ENVIRONMENT AND WATER QUALITY

EDITED BY Y. JUN XU AND VIJAY P. SINGH
Hard Cover, 534 pp, (Cat No. CEWQ) \$75

ISBN-13: 978-1-887201-47-6
ISBN-10: 1-887201-47-5

Coastal Environment and Water Quality contains 41 papers in seven sections reflecting various aspects of coastal environment and water

quality. **Section 1** deals with coastal water pollution which has received considerable attention in recent decades. **Section 2** looks at saltwater intrusion which is of fundamental importance for the management of coastal aquifers. **Section 3** covers coastal water eutrophication. This subject takes on an added significance in light of growing hypoxia due to nutrient enrichment in the Gulf of Mexico. **Section 4** deals with best management practices currently being employed for water quality management. Taken together, these first four sections constitute the building blocks for water quality modeling, which is the subject of **Section 5**. Extending this discussion further, **Section 6** encompasses coastal ecology, wetlands and environment. In conclusion, **Section 7** presents some of the impacts of hurricanes Katrina and Rita. ❖



These two books will be of interest to anyone studying:

- coastal hydrology and water resources,
- water resources planning;
- environmental science and engineering;
- development and management;
- agricultural and forest resources;
- earth sciences;
- watershed and range sciences;
- environmental resources planning & management.

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Coastal Hydrology and Processes



COASTAL HYDROLOGY AND PROCESSES

EDITED BY VIJAY P. SINGH AND Y. JUN XU

Hard Cover, 524 pp, (Cat No. CHP) \$75

ISBN-13: 978-1-887201-46-9

ISBN-10: 1-887201-46-7

From the AIH 25th Anniversary Meeting &
International Conference on

“Challenges in Coastal Hydrology and Water Quality”

May 21-24, 2006 • Baton Rouge, Louisiana

Coastal Hydrology and Processes contains 40 papers in eight sections reflecting on various aspects of coastal hydrology and processes. **Section 1** deals with geographical information systems (GIS) and spatial analysis. The GIS has become a vital tool for distributed hydrologic modeling. **Section 2** deals with land use and climate change impacts on coastal regions. There is a great deal of connection between climate change and land use change, and this connectivity is now being increasingly acknowledged. **Section 3** deals with surface hydrologic modeling. Flood control and risk analysis are discussed in **Section 4**. This subject takes on an added significance in light of the damage that is caused by floods each year in coastal areas, and from the effects of Katrina and Rita on the gulf states in 2005. **Section 5** deals with ground water modeling. Surface water and ground water interactions are discussed in **Section 6**. The populations of coastal areas are increasing their dependence on groundwater. The management of this valuable freshwater resource requires that its interaction with surface water is properly managed. These six sections constitute the building blocks for watershed modeling. Extending this discussion further, **Section 7** deals with coastal processes and analysis. The concluding **Section 8** deals with coastal watershed modeling, which is fundamental to quantifying the impacts of hurricanes Katrina and Rita. ❖

Objectives of the conference:

- To provide an international forum for discussion;
- Spread and exchange current art, science and technology on coastal hydrology, water quality, and their relationships to environmental problems;
- Promote interdisciplinary research on complex environmental systems in coastal regions from physical, biogeochemical, and socioeconomic perspectives.

GENERAL HYDROLOGY, SURFACE HYDROLOGY



Now available in pdf format + 13 compatible modeling programs Now On 1 CD-ROM - Also see page 9

COMPUTER MODELS OF WATERSHED HYDROLOGY

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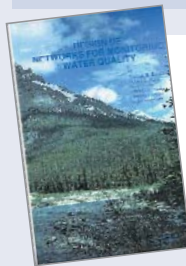
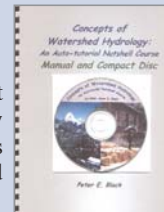
<<Originally sold separately at \$95 each>>



CONCEPTS OF WATERSHED HYDROLOGY: AN AUTO-TUTORIAL NUTSHELL COURSE ~ by Peter E. Black

Softcover, 30 pp, audiovisual CD-ROM (Cat No. CWH) \$35

This publication is a fully auto-tutorial, animated and narrated short course. It is for regulators, public officials, and for practicing professionals to review basic hydrological fundamentals as they pertain to the watershed and its management. A must for libraries geared toward engineering and environmental technology. ISBN 1-887201-36-X. Publ. by Author. ❖



DESIGN OF NETWORKS FOR MONITORING WATER QUALITY

by T.G. Sanders, J.C. Loftis, T.D. Steele, D. D. Adrian, & V. Yevjevich
336 pp, HC, (Cat. No. DNM) \$52

Chap. 1- introduction. Chap. 2 discusses the monitoring network design problems. Chap. 3 provides statistical background. Chaps. 4, 5 and 6 deal with where, how often, and what to sample, for data analysis. Chap. 7 summarizes the text with a step-by-step review of the network design principles. ISBN 0-918334-51-9. Reprinted 1994 WRP. ❖

FLOOD HYDROLOGY MANUAL ~ by Arthur G. Cudworth, Jr.

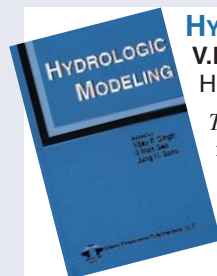
258 pp, SC, (Cat. No. FHM) \$45

This manual concentrates on three major technical aspects of flood hydrology: (1) hydrometeorology related to probable maximum precipitation determinations, (2) probable maximum flood hydrograph determinations, and (3) statistics and probabilities relating to the magnitude and frequency of flood flows. Reprinted 3rd edition 1992, USDI (USBR). ❖

FREQUENCY AND RISK ANALYSES IN HYDROLOGY ~ by G. W. Kite -

- 264 pp, SC, plus Computer Program, (Cat. No. FRAH) \$52

This book describes some methods used to apply frequency analysis techniques to hydrological data in order to provide planners and engineers with figures that they can use in practice to reduce the losses caused by flood and drought. ISBN 0-918334-64-0. 2nd Edition 1988 WRP. ❖



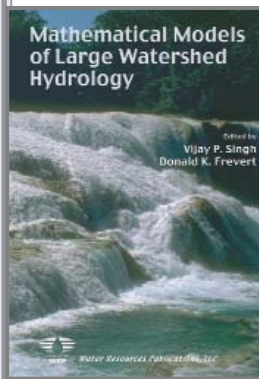
HYDROLOGIC MODELING ~ edited by

V.P. Singh, I.W. Seo, J.H. Sonu -- 454 pp, HC, (Cat. No. HLMSINGH) \$58

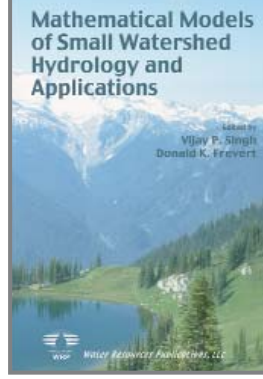
This book contains six sections encompassing major aspects of surface and subsurface water hydrology. Beginning with rainfall modeling in the first section, the papers go on to discuss channel network characteristics; streamflow modeling; frequency and risk analysis; subsurface and ground water modeling; and solute transport in porous media. ISBN 1-887201-21-1. Publ. 1999, WRP. ❖

From the Proceedings of the International Conference on Water, Environment, Ecology, Socio-economics and Health Engineering (WEESHE)

GENERAL HYDROLOGY, SURFACE HYDROLOGY



MATHEMATICAL MODELS OF LARGE WATERSHED HYDROLOGY ~ Edited by Vijay P. Singh and Donald K. Frevert -- 914 pp, HC, ISBN 1-887201-34-3, (Cat. No. MMLW) **\$95**

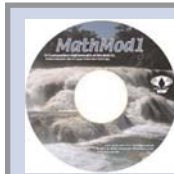


MATHEMATICAL MODELS OF SMALL WATERSHED HYDROLOGY AND APPLICATIONS ~ Edited by Vijay P. Singh and Donald K. Frevert -- 972

pp, HC, ISBN 1-887201-35-1 (Cat. No. MMSW) **\$95**

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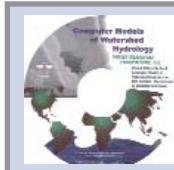
These two publications are a comprehensive account of some of the most popular models of watershed hydrology ~ of interest to all hydrologic modelers and model users and a welcome and timely edition to any modeling library. They will also have a special appeal to anyone engaged in practice of hydrology, civil engineering, agricultural engineering, environmental science, forest and range science, climatology, and watershed science, including teachers and professors who are engaged in graduate courses and research studies. Publ. WRP.❖



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47
Different modeling programs on 3 CDs!!!

NATIONAL ENGINEERING HANDBOOK ~ HYDROLOGY

734 pp, SB, (Cat. No. NEH-4) **\$95**

This book addresses soil and water conservation and flood prevention. It contains methods and examples for studying the hydrology of watersheds, solving special hydrologic problems that arise in planning watershed-protection and flood-prevention projects, preparing working tools needed to plan or designing structures for water use, control, and disposal, and for training personnel. Publ. NRCS.❖

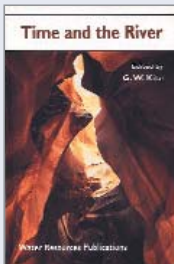
RIVER AND RESERVOIR YIELD ~ by T. A.

McMahon and R. G. Mein
376 pp, HC, (Cat. No. RRY) **\$50**

This text provides a comprehensive review of analyses associated with defining hydrology of low flows and with the hydrologic design and operation of reservoir storage systems. ISBN 0-918334-61-6. Publ. 1986 WRP.❖

Also see
Water Resources Yield
on page 10

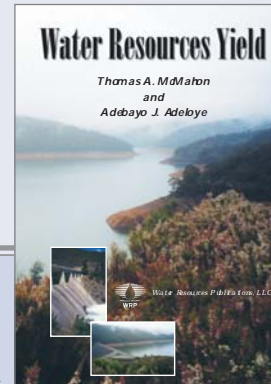
GENERAL HYDROLOGY, SURFACE HYDROLOGY



TIME AND THE RIVER ~ edited by G. W.

Kite - 374 pp, HC, (Cat. No. TAR) \$58

This is a set of essays by eminent hydrologists. The essays provide some answers to questions such as: Where are we in hydrology? What has been achieved in the last few decades? In which direction should we go? ISBN 0-918334-97-7. Publ. 1995 WRP.❖



WATER RESOURCES YIELD

by T. A. McMahon and A. J. Adedoye

234 pp, SC, (Cat. No. WRY) \$65

This book will serve well the needs of practitioners working in the area of surface water resources yield planning and assessment. It has been written in a way that is very easy to understand, and the inclusion of well-presented worked examples will facilitate the understanding of some of the complex storage-yield-performance techniques. This book is one of the most complete reference textbooks on water resources yield assessment and is a must for all engaged in the subject.

Chapter 1 is the introduction. In Chapter 2 reintroduces a classification of S-Y-P techniques in order to place the procedures discussed in this book in relation to each other. Next follows definitions of terms and the chapter concludes with estimating yield from unregulated streams using flow duration curves and low flow frequency curves. Chapter 3 deals with single storage systems based on historical data. This chapter reviews analytical techniques for sizing yield and capacity of both on- and off-stream storages and discusses related issues of evaporation and definitions of reservoir performance.

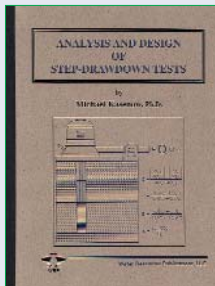
Reservoirs are seldom operated as single isolated systems but rather as integrated, multiple systems to maximize output for a given storage capacity. Consequently, multi-reservoir systems are dealt with in Chapter 4, emphasizing the extension of some of the single reservoir critical period techniques to multiple reservoir systems. Techniques in the previous two chapters are discussed in the context of using only historical data. Chapter 5 examines the application of incorporating stochastic streamflow data rather than just historical flows to both the single reservoir and multi-reservoir systems.

- Useful to water engineers, practicing hydrologists, and graduate students
- New and updated techniques relevant to present day analyses
- Classification of S-Y-P techniques
- Worked examples of 4 streams representing world-wide variability range
- Brings together both theory and application of S-Y-P techniques
- On-stream and off-stream storages

Issues of model parameter uncertainty are also discussed. Techniques for optimization of reservoir size and operation procedures are the core of Chapter 6. Worked examples are a feature of this book. Four streams were chosen, which are used in many of the applications. The streams represent the range of variability exhibited world-wide (McMahon et al., 1992) as represented by the coefficient of variation of annual flows. Key features of the streams, which are located respectively in Australia, South Africa, United Kingdom and United States. Firstly, the four streams range in mean annual runoff, from a wet temperate region of 1100mm in the UK to 9 mm in a semi-arid area of South Africa. Consistent with this range of mean annual runoff is annual streamflow variability (measured by the Cv of annual streamflows, where the Cv is the standard deviation divided by the mean) from less than 0.2 to more than

1. Of the approximate 1000 streams world-wide studied by McMahon et al. (1992), the median annual Cv is less than 0.4. Thus Earn and Hatchie Rivers are examples of lower variability streams typical of the northern Hemisphere streams whereas Richmond and Vis are examples of the relatively higher variability streams found in the southern Hemisphere (excluding South America). ISBN 1-887201-38-6. Publ. 2005 WRP.❖

GROUNDWATER, POROUS MEDIA, KARST WATERS



ANALYSIS AND DESIGN OF STEP-DRAWDOWN TESTS ~ by Michael Kasenow

215 pp, SPB, plus Computer Program, (Cat. No. STP) \$58

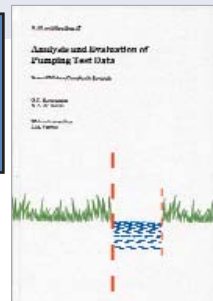


This book provides in-depth knowledge, examples, and instruction in the use of current step-drawdown analytical methods, including solutions that can confirm results. The program solves for aquifer loss, well loss, specific capacity, transmissivity and more.. ISBN 1-887201-15-7. Publ. 1999 WRP.❖

ANALYSIS AND EVALUATION OF PUMPING TEST DATA ~ REVISED 2nd EDITION -- by G. P. Kruseman and N. A. de Ridder with assistance from J. M. Verweij - 378 pp, SC. (Cat. No. AEPT) \$54

This 2nd and completely revised edition is still a practical guide to all who are organizing and conducting a pumping test and analyzing and evaluating its data, adhering to the classical style of analyzing pumping test data. Primary changes cover tests that were omitted from the first edition: single-well tests, well-performance tests, step-drawdown tests. Also included are the slug test, the oscillation test and free-flowing well test for an artesian aquifer. ISBN 90-70754-20-7. Reprinted 1994, ILRI.❖

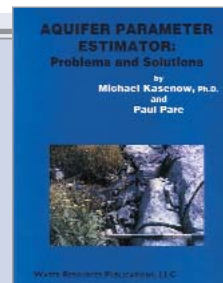
Also see
Aquifer Test Data: Evaluation and Analysis
on page 12



AQUIFER PARAMETER ESTIMATOR: PROBLEMS AND SOLUTIONS ~

Professional VERSION + Computer Program
by Michael Kasenow, Ph.D., and Paul Pare
248 pp, HC,+ New Update Supplement (Cat. No. APE) \$130

This book (APE) is a hydrogeologic software package that is both an engineering and teaching tool. APE estimates aquifer parameters using a variety of methods including: The program provides solutions and results that hydrogeologists need, including: step-drawdown, well efficiency, capture zones, and the ability to model a pump test. This book offers full page illustrations and easy to read tables that greatly reduce the learning curve. ISBN 0-918334-94-2. Publ. 1996 WRP.❖



APE CD-ROM PACKAGE ~ CD-ROM with All Books in Adobe©

pdf format + Computer Programs -- by Michael Kasenow, Ph.D. and Paul Pare
(Cat No. APEP) a \$203 value for \$185

Includes the following books in pdf format + Computer Software

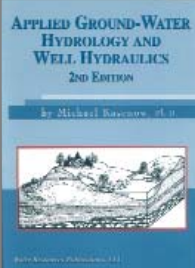
- **AQUIFER PARAMETER ESTIMATOR: PROBLEMS AND SOLUTIONS + SUPPLEMENTAL MATERIAL**
- **DETERMINATION OF AQUIFER PARAMETERS USING REGRESSION ANALYSIS, 2ND EDITION**
- **EASY TO USE TABLES OF SPECIFIC CAPACITY**
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GROUNDWATER, POROUS MEDIA, KARST WATERS



APPLIED GROUND-WATER HYDROLOGY AND WELL HYDRAULICS ~ 2ND EDITION

by M. Kasenow, Ph.D. - 856 pp, SC, 8.5 x 11", with software, (Cat. No. AGWH2) \$129

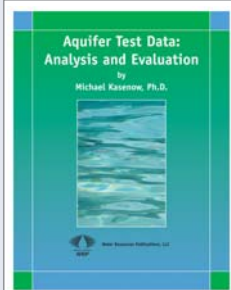


SUCCESSFULLY
Used as a **TEXT-BOOK** for
ground water
hydrology and
hydraulics

The second edition of Dr. Kasenow's highly acclaimed first edition provides review and application in regard to the mechanics of ground-water flow and aquifer analysis. Using common language and carefully constructed illustrations, this book has been written for those who think visually.

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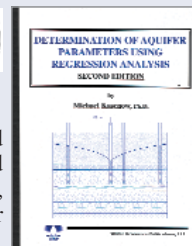
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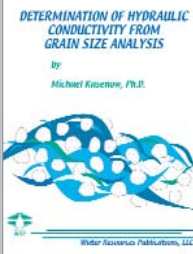
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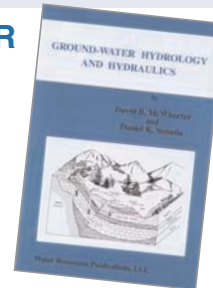
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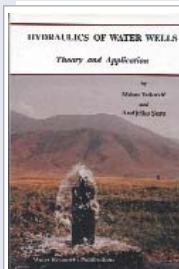
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Groundwaters of
New Zealand



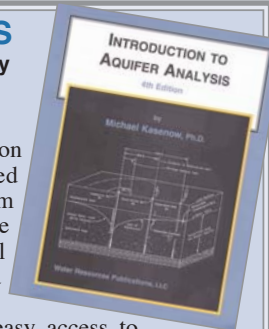
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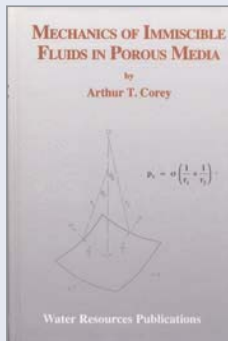
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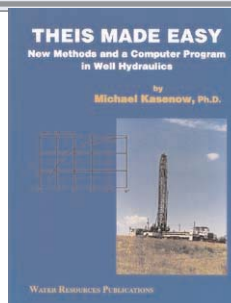
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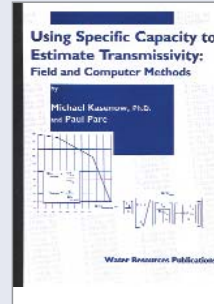
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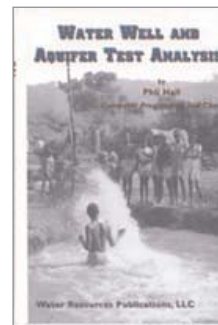
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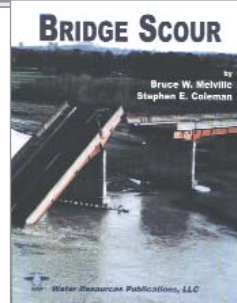
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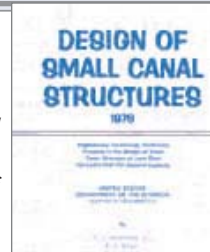
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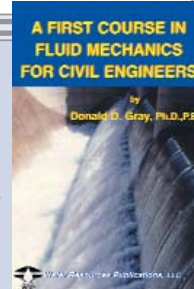
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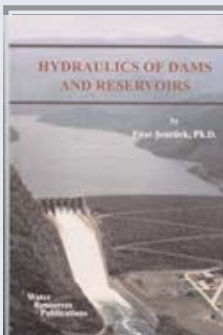
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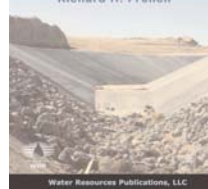
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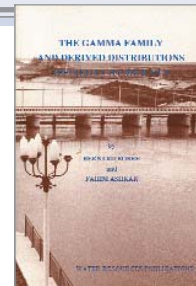
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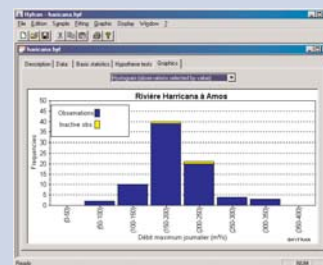


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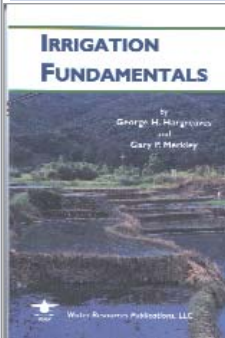
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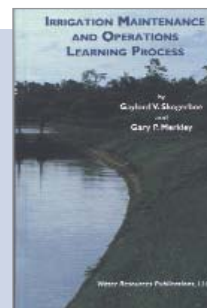
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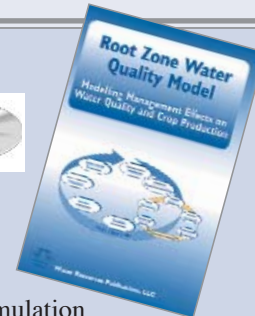
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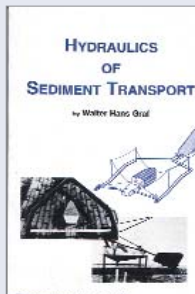
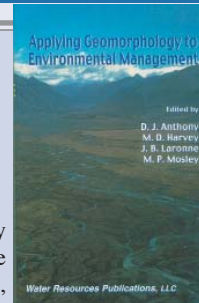
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This book is the outcome of a symposium held to honor Dr. Stanley Schumm, a pioneer in the field of fluvial geomorphology. Included are topics that address primary fluvial processes, extreme events, anthropogenic effects on fluvial systems, applied fluvial geomorphology, and engineering geomorphology. This publication is an important addition to any library concerning the workings and restoration of the world's rivers. Publ. WRP. ❖



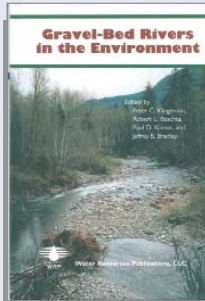
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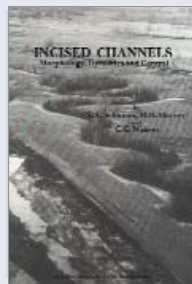
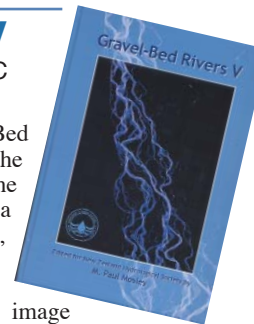
researchers, libraries, educators, and policy makers. ISBN 1-887201-13-0. Publ. WRP. ❖

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INCISED CHANNELS - MORPHOLOGY, DYNAMICS AND CONTROL

by S. A. Schumm, M. D. Harvey & C. C. Watson, 220 pp, SC, (Cat. No. IC) \$40

Content: Fluvial systems behavior; Drainage network rejuvenation; Gullies; Entrenched streams; Entrenched channels of Northern Mississippi; Channels; summary and applications. ISBN 0-918334-53-5. Publ. 1984 WRP. ❖

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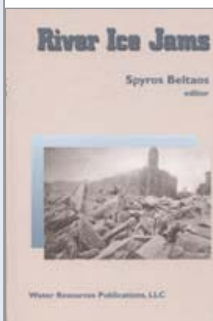
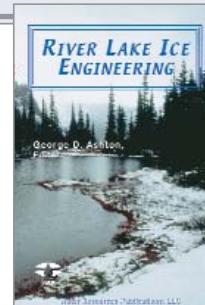
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RIVER ICE JAMS

Spyros Beltaos, editor
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This book addresses a subject of considerable socio-economic significance but one that has only recently been studied in some depth. It brings together and synthesizes most of the relevant information, previously scattered in various journals, reports and conference proceedings. A collaborative effort by several authors, each contributed unique expertise and focused on different aspects of the ice jamming processes and associated problems. ISBN 0-918334-87-X. Publ. 1996 WRP.❖

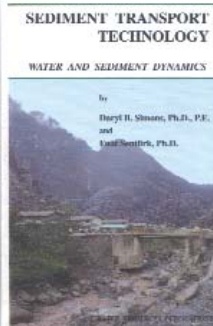
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• Chapt. 10: Degradation, Aggradation and Scour in Alluvial Channels. ISBN 0-918334-66-7. Publ. 1992 WRP.❖



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Available to Instructors. ISBN 0-918334-67-5. Publ. 1992 WRP.❖

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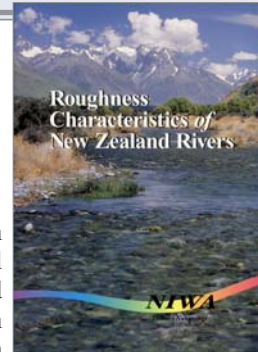
ROUGHNESS CHARACTERISTICS OF NEW ZEALAND RIVERS

by D. M. Hicks and P. D. Mason

156 full color photographs, 336 pp, SC, (Cat. No. RCNZR), \$78

The popular previous edition of this book has been referenced in every significant book on fluvial geomorphology and in hundreds of articles published since its original printing in 1991. The information presented is the culmination of a three-year field program in which roughness and other hydraulic parameters were measured. The information presented is the culmination of a three-year field program in which roughness and other hydraulic parameters were measured. Physical and hydraulic characteristics are presented for 78 New Zealand river and canal reaches which may be used as reference reaches for estimating roughness coefficients in similar channels. The information given for each reach includes 156 color photographs, cross-section and planform plots, bed and bank descriptions, bed surface material size gradings, plus tables and plots showing how the Manning and Chezy roughness coefficients vary with flow magnitude.

From the Table of Contents: Introduction • Reach selection • Field measurements • Calculation of roughness coefficients and other parameters • Errors and uncertainties • Presentation of information • How to use this book • Quick method for selecting reference reaches • Site information • References • Site index. ISBN 0-477-026008-7, Publ. 1999, NIWA. ❖



WATER RESOURCES INTO THE NEW MILLENIUM: PAST ACCOMPLISHMENTS AND NEW CHALLENGES

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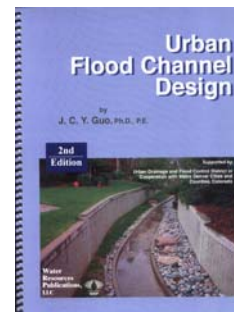
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This book covering both storm water conveyance and storage designs, will be useful and resourceful because it provides theories, practices, and tools for storm water designs. It also addresses the prediction methods for rainfall and runoff from urban catchments, and storm water conveyance and storage designs. The book has been successfully used for senior design classes. Computer models for storm runoff predictions, flood channel design, storm sewer system design, and detention/retention/infiltration basin design were developed with support from the governments in the Denver metropolitan area, Colorado, USA. Over the years, this software has been recommended and accepted by several metropolitan areas in the US for storm water designs. Publ. WRP. ❖



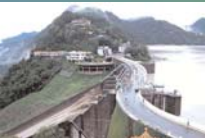
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Many of the design methods documented in this book have been adopted as the recommended design procedure by Denver, Las Vegas, and Sacramento metropolitan areas in the United States. Based on these methods, there are many design computer models that have been developed and supported by the Denver metro governments for stormwater design purposes. ISBN-13: 978-1-887201-48-3 / ISBN-10: 1-887201-48-3. **To be published WRP 2006.** ❖

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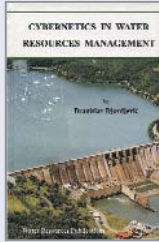
URBAN STORM DRAINAGE

Proceedings, U.S. - Italy Bilateral Seminar, Cagliari, Italy

edited by C. Cao, B. C. Yen, & M. Benedini - 330 pp, HC, (Cat. No. USDI) \$55

Contributions from invited speakers in the Bilateral Seminar. ISBN 0-918334-75-6. Publ. WRP. ❖

Water Resources Assessment, Planning, Management, Law, and Knowledge Transfer



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by **B. Djordjevic**

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The main goal of this book is to explain the complexity of water management and the importance of right decisions at the right times associated with water resources and other environmental problems. ISBN 0-918334-82-9. Publ. WRP.❖

FLOODS AND DROUGHTS: THE NEW ZEALAND EXPERIENCE

Edited by **M. Paul Mosley and Charles P.I. Pearson**

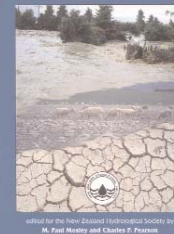
206 pp, SC, ISBN 0-473-04735-7 (Cat No. FDNZ) **\$45**

This book summarizes the wealth of observation and analysis of floods and droughts in New Zealand. Chapters are contributed by 20 hydrological scientists and water resources professionals, who have worked on many different aspects of floods and droughts. Some chapters present observations of historically significant floods and droughts, and review different approaches to their analysis. Other chapters consider the cause-and-effect relationships between floods and droughts, land use changes, instream uses such as ecosystem maintenance, erosion and sedimentation processes, and the behaviour of groundwater resources. A final pair of chapters focuses on approaches to management of floods and droughts that are being developed in the country, and discuss four specific case studies.

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Floods and Droughts: the New Zealand Experience



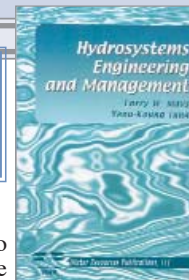
HYDROSYSTEMS ENGINEERING AND

MANAGEMENT ~ by **Larry W. Mays and Yeou-Koung Tung** - 550 pp, SC, ISBN 1-887201-32-7 (Cat. No. HEAM) **\$58**

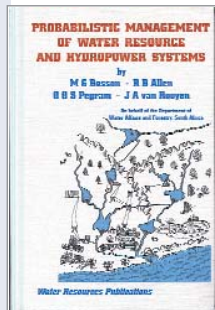
~ Originally published from the *McGraw-Hill Water Resources and Environmental Engineering Series*

The material can be presented by instructors to students with no background in operations research and with only an undergraduate background in hydrology and hydraulics. A major focus is to bring together the use of economics, operations research, probability and statistic with the use of hydrology, hydraulics and water resources for the analysis, design, operation, and management of various types of water projects. Reprinted WRP.❖

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Water Resources Assessment, Planning, Management, Law, and Knowledge Transfer



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This is a first comprehensive publication to cover the application of stochastic hydrology together with sophisticated systems analysis techniques in water resources engineering.

The developed methodology has been extensively applied in practice for years for the real-time operating and development planning of large water resource systems with great success. The stochastic models and probabilistic techniques have been tested and proven under varied hydrological conditions from semi-desert to humid sub-tropical and mountain highland conditions. Although primarily aimed at complex multi-reservoir systems, serving multiple users with varying reliability of supply requirements, as well as hydropower generation, the methodology described applies equally well to simple single reservoir developments. On behalf of the Department of Water Affairs and Forestry, South Africa. ISBN 0-918334-89-6. Publ. 1994 WRP. *Successfully applied to more than 15 water resource systems in 5 countries.* ❖

WATER RESOURCES PLANNING AND MANAGEMENT

Edited by V.P. Singh, I.W. Seo, J.H. Sonu
286 pp, (Cat. No. WRPM) \$52

This book encompasses major aspects of water resources planning and management. Beginning with a discussion of water resources planning in the first section, the papers go on to discuss water pricing; water resources management; operation of water resources systems; and impact of climate change. ISBN 1-887201-24-6. Publ. 1999, WRP. ISBN 1-887201-24-6. ❖

From the Proceedings of the International Conference on Water, Environment, Ecology, Socio-economics and Health Engineering (WEESHE)

WATER RESOURCES
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Instructions, standards, and procedures for selection, design and use of structures, which measure or regulate the flow rate in open channels. ISBN 90-70754-150. Revised 1989 ILRI. ❖

WATER MEASUREMENT MANUAL, 4TH EDITION ~ U.S. Dept. of the Interior, Bureau of Reclamation - 349 pp, SC, (Cat. No. WMM) \$75

This third edition was prepared to supplement and update information contained in the second edition, to make available to water users the information needed for measuring irrigation, municipal, and industrial waters. Publ. 2002, USBR. ❖

WATER MEASUREMENT WITH FLUMES AND WEIRS

by A.J. Clemmens, T.L. Wahl, M.G. Bos, & J.A. Replogle
382 pp, Hard Cover, ISBN 90 70754 55 X, (Cat. No. WMFW) \$56

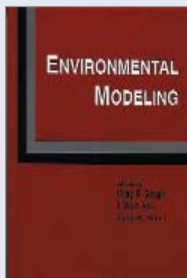
This publication integrates material from the 1984 book Flow Measuring Flumes for Open-Channel Systems and the 1993 book FLUME: Design and Calibration of Long-Throated Measuring Flumes, which introduced the first interactive flume-design software. ❖

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