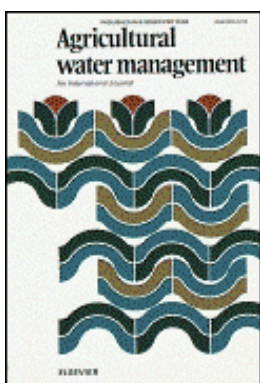


**REVISTAS DE INTERÉS**

Incluimos en este apartado la relación de artículos publicados en las revistas de mayor impacto en el campo de la Ingeniería Hidráulica, con fecha posterior a la impresión del ejemplar anterior de nuestra revista. No se reseñan aquellos artículos cuyo contenido cae fuera de nuestras áreas de interés o bien aquellos que presentan una extrema especificidad.

**Agricultural Water Management**

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**Volumen 77, Números 1-3, Agosto 2005.** Especial: Land and Water Use: Environmental Management Tools and Practices: 22 Artículos

**Volumen 78, Números 1-2, Septiembre 2005.** Especial: Advances in Integrated Management of Fresh and Saline Water for Sustainable Crop Production: Modeling and Practical Solutions: 12 Artículos

**Volumen 78, Número 3, Diciembre 2005**

- Simulating water and salt movement in tile-drained fields irrigated with saline water under a Serial Biological Concentration management scenario. Ninghu Su, Matthew Bethune, Louise Mann and Alfred Heuperman
- Increasing potato yields with additional water and increased soil temperature. Xiao-Ling Wang, Feng-Min Li, Yu Jia and Wen-Quan Shi
- Comparison of Artificial Neural Network and regression models for sediment loss prediction from Banha watershed in India. A. Sarangi and A.K. Bhattacharya
- Evaluation of a hydrographic technique to measure on-farm water storage volumes. Peter Gibbings and Steven Raine

**Volumen 79, Número 1, Enero 2006**

- Yield performance of spring wheat improved by regulated deficit irrigation in an arid area. Buchong Zhang, Feng-Min Li, Gaobao Huang, Zi-Yong Cheng and Yanhong Zhang
- Applying SWAT for TMDL programs to a small watershed containing rice paddy fields. M.S. Kang, S.W. Park, J.J. Lee and K.H. Yoo

## REVISTAS DE INTERÉS

- Experimental study of water flow and sulphate transport at monolith scale. Fariborz Abbasi, Mathieu Javaux, Marnik Vanclooster, Jan Feyen, Guido Wyseure and Generose Nziguheba

### **Volumen 79, Número 2, Enero 2006**

- Subsurface drain flow and crop yield predictions for different drain spacings using DRAINMOD. X. Wang, C.T. Mosley, J.R. Frankenberger and E.J. Kladvik
- Evaluation of DRAINMOD for predicting water table heights in irrigated fields at the Jordan Valley. G. Sinai and P.K. Jain
- Field-saturated hydraulic conductivity of unsaturated soils from falling-head well tests. M. Rodgers and J. Mulqueen
- Analysis of a two-component hydrograph separation model to predict herbicide runoff in drained soils. C.M. Heppell and A.S. Chapman

### **Volumen 79, Número 3, Febrero 2006**

- Digital elevation data for estimation of potential wetness in ridged fields—Comparison of two different methods. Petter Pilesjö, Andreas Persson and Lars Harrie
- Effect of different water supply regimes on growth and size hierarchy in spring wheat populations under mulched with clear plastic film. Yan-Jun Du, Zi-Zhen Li and Wen-Long Li
- Effects of winter crop and supplemental irrigation on crop yield, water use efficiency and profitability in rainfed rice based cropping system of eastern India. Gouranga Kar, H.N. Verma and Ravender Singh
- Water and nitrate movement in drip-irrigated onion under fertigation and irrigation treatments. T.B.S. Rajput and Neelam Patel

**Volumen 80, Números 1-3, Febrero 2006.** Especial: Water Scarcity: Challenges and Opportunities for Crop Science: 17 Artículos

### **Volumen 81, Números 1-2, Marzo 2006**

- A recommendation on standardized surface resistance for hourly calculation of reference  $ET_0$  by the FAO56 Penman-Monteith method. Richard G. Allen, William O. Pruitt, James L. Wright, Terry A. Howell, Francesca Ventura, Richard Snyder, Daniel Itenfisu, Pasquale Steduto, Joaquin Berengena, Javier Baselga Yrisarry *et al.*
- Effects of pre-anthesis drought, nitrogen fertilizer rate, and variety on grain yield, yield components, and harvest index of tropical maize. Samuel B. Moser, Boy Feil, Sansern Jampatong and Peter Stamp
- DRAINMOD-GIS: A lumped parameter watershed scale drainage and water quality model. G.P. Fernandez, G.M. Chescheir, R.W. Skaggs and D.M. Amatya
- Irrigation and soil management strategies for using saline-sodic water in a cotton-wheat rotation. G. Murtaza, A. Ghafoor and M. Qadir
- Effect of drip irrigation regimes on yield and quality of field grown bell pepper. S. Metin Sezen, Attila Yazar and Salim Eke
- Response of cucumber to drip irrigation water under a rainshelter. Bao-Zhong Yuan, Jie Sun, Yaohu Kang and Soichi Nishiyama

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- Development and evaluation of integrated water and nitrogen model for maize Sh. Zand-Parsa, A.R. Sepaskhah and A. Ronaghi
- Regional calibration of Hargreaves equation for estimating reference ET in a semiarid environment. P. Gavilán, I.J. Lorite, S. Tornero and J. Berengena
- Modeling net water requirements for wetlands in semi-arid regions. Zhonghua Jia and Wan Luo
- Remote sensing to estimate ET-fluxes and the performance of an irrigation district in southern Italy. Simona Consoli, Guido D'Urso and Attilio Toscano

**Volumen 82, Números 1-2, Abril 2006**

- Comparison of different methods to measure and model actual evapotranspiration rates for a wet sloping grassland. Valentijn R.N. Pauwels and Roeland Samson
- Plant water accessibility function: A design and management tool for trickle irrigation. Alberto Colombo and Dani Or
- Effects of water table and fertilization management on nitrogen loading to groundwater. Huaming Guo, Guanghe Li, Dayi Zhang, Xu Zhang and Chang'ai Lu
- Comparison of the subirrigation and drip-irrigation systems for greenhouse zucchini squash production using saline and non-saline nutrient solutions. Youssef Rouphael, Mariateresa Cardarelli, Elvira Rea, Alberto Battistelli and Giuseppe Colla
- A comprehensive experimental study with mathematical modeling to investigate the affects of cropping practices on water balance variables. Nazrul Islam, Wesley W. Wallender, Jeffrey Mitchell, Santhi Wicks and Richard E. Howitt
- Channel capacity under arranged demand irrigation. Arif A. Anwar, Derek Clarke and Tonny T. de Vries
- Influence of fallowing practices on soil water and precipitation storage efficiency in semiarid Aragon (NE Spain). D. Moret, J.L. Arrúe, M.V. López and R. Gracia
- Physiological and growth response to moderate water deficit of off-season potatoes in a Mediterranean environment. Anita Ierna and Giovanni Mauromicale
- Falling water tables in a sloping/nonsloping aquifer under various initial water table profiles. R.M. Singh, K.K. Singh and S.R. Singh

**Ground Water**

<http://www.ngwa.org/publication/gw/gwtoc.cfm>

**Volumen 43, Número 5, Septiembre 2005**

- The Water Crisis in the Gaza Strip: Prospects for Resolution. E. Weinthal, A. Vengosh, A. Marei, A. Gutierrez, W. Kloppmann
- Transboundary Aquifers: A Global Program to Assess, Evaluate, and Develop Policy. S. Puri, A. Aureli
- Economic Commission for Europe Inventory of Transboundary Ground Water in Europe. G.E. Arnold, Zs. Buzás
- Transboundary Aquifers: Conceptual Models for Development of International Law. Yoram Eckstein, Gabriel E. Eckstein
- Ground Water Rights, Spatial Variation, and Transboundary Conflicts. Olen Paul Matthews
- A Framework for Resolving the Transboundary Water Allocation Conflict Conundrum. Marty Rowland
- Transboundary Impacts on Regional Ground Water Modeling in Texas. Ken Rainwater, Jeff Stovall, Scott Frailey, Lloyd Urban
- Transboundary Flow Modeling: The Zohor Depression of Austria and the Slovak Republic. Marian Fendek, Miriam Fendekova
- System Dynamics Modeling of Transboundary Systems: The Bear River Basin Model. Gerald Sehlke, Jake Jacobson
- Economics of Transboundary Aquifer Management. Janie M. Chermak, Robert H. Patrick, David S. Brookshire
- Securing the Future of Ground Water Resources in the Great Lakes Basin. Gerald Galloway, Ralph Pentland
- Isotope Methods for Management of Shared Aquifers in Northern Africa. Bill Wallin, Cheikh Gaye, Laurence Gourcy, Pradeep Aggarwal
- Revisiting a Classification Scheme for U.S.-Mexico Alluvial Basin-Fill Aquifers. Barry J. Hibbs, Bruce K. Darling
- International Borders, Ground Water Flow, and Hydroschizophrenia. Todd Jarvis, Mark Giordano, Shammy Puri, Kyoko Matsumoto, Aaron Wolf

### **Volumen 43, Número 6, Noviembre 2005**

- Assessing Background Ground Water Chemistry beneath a New Unsewered Subdivision. Jeffrey D. Wilcox, Kenneth R. Bradbury, Curtis L. Thomas, Jean M. Bahr
- Glacial Sediment Causing Regional-Scale Elevated Arsenic in Drinking Water. Melinda L. Erickson, Randal J. Barnes
- Geochemistry of Extremely Alkaline (pH > 12) Ground Water in Slag-Fill Aquifers. George S. Roadcap, Walton R. Kelly, Craig M. Bethke
- A Simple Method for Calculating Growth Rates of Petroleum Hydrocarbon Plumes. Barbara A. Bekins, Isabelle M. Cozzarelli, Gary P. Curtis
- Predicting Conductance Due to Upconing Using Neural Networks. Emery A. Coppola Jr, Charles F. McLane, Mary M. Poulton, Ferenc Szidarovszky, Robin D. Magelky
- The Effects of Climatic Variability on Estimates of Recharge from Temperature Profiles. Grant Ferguson, Allan D. Woodbury
- Uncertainty Estimation of Pathlines in Ground Water Models. Fritz Stauffer
- Monitoring Strategies at Phreatic Wellfields: A 3D Travel Time Approach. Hans Peter Broers, Frans C. van Geer

- Site Characterization in Densely Fractured Dolomite: Comparison of Methods. Maureen Muldoon, Ken R. Bradbury
- Simulating Conservative Tracers in Fractured Till under Realistic Timescales. M.F. Helmke, W.W. Simpkins, R. Horton
- Delineating Alluvial Aquifer Heterogeneity Using Resistivity and GPR Data. Jerry C. Bowling, Antonio B. Rodriguez, Dennis L. Harry, Chunmiao Zheng
- Optimizing Remediation of an Unconfined Aquifer Using a Hybrid Algorithm. Chin-Tsai Hsiao, Liang-Cheng Chang
- Identifying the Potential Loss of Monitoring Wells Using an Uncertainty Analysis. Vicky L. Freedman, Scott R. Waichler, Charles R. Cole, Vince R. Vermeul, Marcel P. Bergeron
- Multilayer Analytic Element Modeling of Radial Collector Wells. Mark Bakker, Victor A. Kelson, Kenneth H. Luther

#### **Volumen 44, Número 1, Enero 2006**

- Ground Water Modeling Applications Using the Analytic Element Method. Randall J. Hunt
- Using Analytic Element Models to Delineate Drinking Water Source Protection Areas. Heather A. Raymond, Michael Bondoc, John McGinnis, Kathy Metropulos, Pat Heider, Allison Reed, Steve Saines
- The AEM and Regional Carbonate Aquifer Modeling. Cady Johnson, Martin Mifflin
- A Multiscale Investigation of Ground Water Flow at Clear Lake, Iowa. William W. Simpkins
- Estimating Recharge Rates with Analytic Element Models and Parameter Estimation. W.R. Dripps, R.J. Hunt, M.P. Anderson
- The Synergistic Powers of AEM and GIS Geodatabase Models in Water Resources Studies. David R. Steward, Eric A. Bernard
- Identification of Heterogeneous Aquifer Transmissivity Using an AE-Based Method. Igor Janković, Aldo Fiori, Raghavendra Suribhatla, Gedeon Dagan
- Vertically Integrated Flows, Discharge Potential, and the Dupuit-Forchheimer Approximation. O.D.L. Strack, R.J. Barnes, A. Verruijt
- The Nested Superblock Approach for Regional-Scale Analytic Element Models. James R. Craig, Igor Janković, Randal Barnes
- Analytic Element Modeling of Embedded Multiaquifer Domains. Mark Bakker
- Uniform Head in Horizontal and Vertical Wells. David R. Steward, Wei Jin
- The Development of New Analytic Elements for Transient Flow and Multiaquifer Flow. O.D.L. Strack

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#### **Volumen 50, Número 5, Octubre 2005**

- Identification of rainfall-runoff models for operational applications. Thorsten Wagener & Neil McIntyre
- Coding random self-similar river networks and calculating geometric distances: 1. General methodology. Chun-Po Hung & Ru-Yih Wang

## REVISTAS DE INTERÉS

- Coding random self-similar river networks and calculating geometric distances: 2. Application to runoff simulations. Chun-Po Hung & Ru-Yih Wang
- Trend detection in river flow series: 1. Annual maximum flow. Zbigniew W. Kundzewicz, Dariusz Graczyk, Thomas Maurer, Iwona Pióskwar, Maciej Radziejewski, Cecilia Svensson & Małgorzata Szwed
- Trend detection in river flow series: 2. Flood and low-flow index series. Cecilia Svensson, Zbigniew W. Kundzewicz & Thomas Maurer
- Probabilistic forecasting of hydrological events using geostatistical analysis. Shahab Araghinejad & Donald H. Burn
- An investigation of lag times for rainfall–runoff–sediment yield events in small river basins. Kazimierz Banasik, Marek Madeyski, J. Kent Mitchell & Kazuki Mori
- Measurement of rainfall interception by xerophytic shrubs in re-vegetated sand dunes. Xin-Ping Wang, Xin-Rong Li, Jing-Guang Zhang, Zhi-Shan Zhang & Ronny Berndtsson
- A revised approach to the UKIH method for the calculation of baseflow. Andrew R. Piggott, Syed Moin & Chuck Southam

### Volumen 50, Número 6, Diciembre 2005

- Changes of the 0°C isotherm and the equilibrium line altitude in central Chile during the last quarter of the 20th century. Jorge F. Carrasco, Gino Casassa & Juan Quintana
- Estimation by photogrammetry of the glacier recession on the Cotopaxi Volcano (Ecuador) between 1956 and 1997. E. Jordan, L. Ungerechts, B. Cáceres, A. Peñafiel & B. Francou
- Glacier shrinkage and negative mass balance in the Chilean Lake District (40°S). Andrés Rivera, Francisca Bown, Gino Casassa, César Acuña & Jorge Clavero
- Hydrochemical evaluation of changing glacier meltwater contribution to stream discharge: Callejon de Huaylas, Peru. Bryan G. Mark, Jeffrey M. McKenzie & Jesús Gómez
- Relationship between precipitation phase and air temperature: comparison between the Bolivian Andes and the Swiss Alps. Yann L'Hôte, Pierre Chevallier, Anne Coudrain, Yves Lejeune & Pierre Etchevers
- Transfert d'énergie thermique vers le fond d'un réservoir lacustre. Janusz Chmura  
Comparing stream re-aeration coefficient estimated from ANN and empirical models. Sharad Kumar Jain & Ramakar Jha
- Clark's and Espey's unit hydrographs vs the gamma unit hydrograph. Sushil K. Singh
- Multiple criteria rainfall–runoff model calibration using a parallel genetic algorithm in a cluster of computers. Chun-Tian Cheng, Xin-Yu Wu & K. W. Chau
- Estimation of extreme floods of the River Meuse using a stochastic weather generator and a rainfall–runoff model. Robert Leander, Adri Buishand, Paul Aalders & Marcel De Wit
- Identification of homogeneous regional classes for flood frequency analysis in the light of regional taxonomy. Lubomír Solín
- Modélisation du bilan hydrologique de la partie sud de la Mer d'Aral entre 1993 et 2001. Simon Gascoïn & Philippe Renard
- Hydrochemical and bacteriological features of the groundwater: southern border of the Rharb basin (Morocco). Brahim Ben Kabbour & Lahcen Zouhri

- Uncertainty and sensitivity analysis of runoff and sediment yield in a small agricultural watershed with KINEROS2. Mohamed M. Hantush & Latif Kalin

#### **Volumen 51, Número 1, Febrero 2006**

- Modelling the infiltration process with a multi-layer perceptron artificial neural network. Nestor L. Sy
- Determining the structure of a radial basis function network for prediction of nonlinear hydrological time series. A. W. Jayawardena, P. C. Xu, F. L. Tsang & W. K. Li
- Parameter conditioning and prediction uncertainties of the LISFLOOD-WB distributed hydrological model. Xingguo Mo, Florian Pappenberger, Keith Beven, Suxia Liu, Ad De Roo & Zhonghui Lin
- A real-time stage Muskingum forecasting model for a site without rating curve. Tommaso Moramarco, Silvia Barbetta, Florisa Melone & V. P. Singh
- Spatial and temporal analysis of droughts in the Iberian Peninsula (1910–2000). Sergio M. Vincente-Serrano
- Long-term and extreme water level variations of the shallow Lake Poopó, Bolivia. Ramiro Pillco Zolá & Lars Bengtsson
- Rainfall and runoff erosivity in the alpine climate of north Slovenia: a comparison of different estimation methods. Matjaž Mikoš, Darja Jošt & Gregor Petkovšek
- Rainfall amount and intensity in a rural catchment of the middle mountains, Nepal. Rolf Weingartner
- Diffusive nutrient flux at the sediment–water interface in Suma Park Reservoir, Australia. Mosharef Chowdhury & Dhia Al Bakri
- Loss of reservoir volume by sediment deposition and its impact on water availability in semiarid Brazil. José Carlos de Araújo, Andreas Güntner & Axel Bronstert
- Global effects of doubled atmospheric CO<sub>2</sub> content on evapotranspiration, soil moisture and runoff under potential natural vegetation. Anna Leipprand & Dieter Gerten

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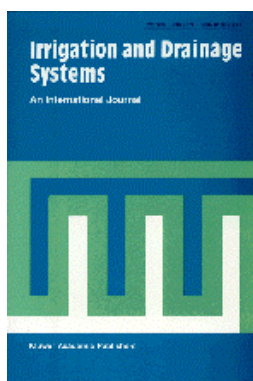
- A grid-based runoff generation and flow routing model for the Upper Blue Nile basin. Anil Mishra & Takeshi Hata
- Hydrology-based assessment of environmental flows: an example from Nepal. V. U. Smakhtin, R. L. Shilpakar & D. A. Hughes
- Design hyetographs analysis with 3-copula function. Salvatore Grimaldi & Francesco Serinaldi
- Courbes intensité–durée–fréquence des précipitations à Yangambi, Congo, au moyen de différents modèles de type Montana. Bernard Mohymont & Gaston R. Demarée
- Années sèches et années humides au Sahel: *quo vadimus?* Maud Balme, Thierry Lebel & Abou Amani
- Caractérisation isotopique de la relation barrage–nappe dans le bassin du Merguellil (Plaine de Kairouan, Tunisie centrale). Safouan Ben Ammar, Kamel Zouari, Christian Leduc & Jemaiel M'barek

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- Modelling of water flow through typical Bavarian soils: 1. Estimation of hydraulic characteristics of the unsaturated zone. Stanisław Maciejewski, Piotr Małoszewski, Christine Stumpp & Dietmar Klotz
- Modelling of water flow through typical Bavarian soils: 2. Environmental deuterium transport. Piotr Małoszewski, Stanisław Maciejewski, Christine Stumpp, Willibald Stichler, Peter Trimborn & Dietmar Klotz
- Annual runoff estimation—an example of karstic aquifers in the transboundary region of Croatia and Slovenia. Bojana Horvat & Josip Rubinic
- Mapping of regional evapotranspiration in wheat using Terra/MODIS satellite data. N. R. Patel, D. Rakhesh & A. J. Mohammed
- Ice cover as an indicator of winter air temperature changes: case study of the Polish Lowland lakes. Włodzimierz Marszelewski & Rajmund Skowron

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### Volumen 19, Número 2, Mayo 2005

- Asset management modelling framework for irrigation and drainage systems: Principles and case study application. Hector M. Malano, Biju A. George, Brian Davidson
- The financial viability of irrigation management companies: A case study of Cu Chi irrigation system, Vietnam. Brian Davidson, Hector M. Malano, Biju A. George
- Controlled water table management as a strategy for reducing salt loads from subsurface drainage under perennial agriculture in semi-arid Australia. John W. Hornbuckle, Evan W. Christen, James E. Ayars, Richard D. Faulkner
- Economic analysis of integrated on-farm drainage management. Dennis Wichelns
- Reasons for smallholder farmers discontinuing with low-cost micro-irrigation: A case study from Kenya. I. K. Kulecho and E. K. Weatherhead
- Performance assessment of Doroodzan irrigation network by steady state hydraulic modelling. M. A. Shahrokhnia and M. Javan

### Volumen 19, Números 3-4, Noviembre 2005

- Irrigation reliability and the productivity of water: A proposed methodology using evapotranspiration mapping. Chris Perry

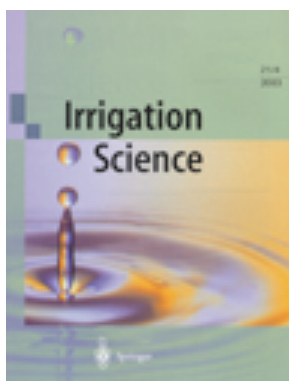
- Review on estimation of evapotranspiration from remote sensing data: From empirical to numerical modeling approaches. Dominique Courault, Bernard Seguin, Albert Olioso
- A Landsat-based energy balance and evapotranspiration model in Western US water rights regulation and planning. Richard G. Allen, M. Tasumi, Anthony Morse, Ricardo Trezza
- Managing scarce water resources in Asia: The nature of the problem and can remote sensing help? Wim G. M. Bastiaanssen and Nagaraja Rao Harshadeep
- High density NOAA time series of ET in the Gediz Basin, Turkey. Ambro Gieske and Wouter Meijninger
- The use of remote sensing for estimating ET of irrigated wheat and cotton in Northwest Mexico. Jaime Garatuza-Payan and Christopher J. Watts
- Irrigation water management using high resolution airborne remote sensing. Christopher M. U. Neale, Harikishan Jayanthi, James L. Wright
- Irrigation management from space: Towards user-friendly products. Alfonso Calera Belmonte, Anne M. Jochum, Andrés Cuesta García, Amelia Montoro Rodríguez, Prudencio López Fuster
- Operational aspects of satellite-based energy balance models for irrigated crops in the semi-arid U.S. Masahiro Tasumi, Ricardo Trezza, Richard G. Allen, James L. Wright

#### **Volumen 20, Número 1, Febrero 2006**

- Water, nitrogen and yield losses for a nonhomogeneous furrow set. Zornitsa Popova
- Groundwater modelling to assess the effect of interceptor drainage and lining: Example of model application in the Fordwah Eastern Sadiqia project, Pakistan. H. C. Jansen, M. N. Bhutta, I. Javed, W. Wolters
- Paper submitted for the ninth international drainage workshop (ICID): Water table management: A technology for achieving more crop per drop. Nicolas Stämpfli and Chandra A. Madramootoo
- Cropping pattern planning under water supply from multiple sources. G. Tsakiris and M. Spiliotis
- Design of hydraulic structures to prevent the spread of intermediate snails hosts of schistosomiasis. Damei Li and Xiaoli Fu
- On-farm performance evaluation of improved traditional small-scale irrigation practices: A case study from Dire Dawa area, Ethiopia. Zerihun Bekele and Ketema Tilahun
- Drainage control in water management of polders in the Netherlands. Peter-Jules Van Overloop
- Effect of improved cultural practices on crop yield and soil salinity under relatively saline groundwater applications. Muhammad Ashraf and Muhammad Mazhar Saeed
- Optimizing the layout and design of branched pipeline water distribution systems. Raul P. Lejano
- Alternate designs of stilling basins for pipe outlets. Arun Goel and D. V. S. Verma

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**Volumen 24, Número 2, Enero 2006:** Irrigation of Fruit Trees and Vines: 9 artículos

**Volumen 24, Número 3, Marzo 2006**

- The resource potential of in-situ shallow ground water use in irrigated agriculture: a review. J. E. Ayars, E. W. Christen, R. W. Soppe, W. S. Meyer
- Effect of drip irrigation frequency on radish (*Raphanus sativus* L.) growth and water use. Shuqin Wan and Yaohu Kang
- Cost-benefit analysis of a regulated deficit-irrigated almond orchard under subsurface drip irrigation conditions in Southeastern Spain. Pascual Romero, José García, Pablo Botía
- Evaluation of the Watermark sensor for use with drip irrigated vegetable crops. R.B. Thompson, M. Gallardo, T. Agüera, L.C. Valdez, M.D. Fernández
- Responses of 'Petopride' processing tomato to partial rootzone drying at different phenological stages. Jorge A. Zegbe, M. Hossein Behboudian, Brent E. Clothier

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**Volumen 97, Número 8, Agosto 2005**

- Population growth and climate change will pose tough challenges for water utilities. Edward G. Means III, Nicole West, and Roger Patrick
- Tapping into the knowledge of frontline employees. Karen H. Cooper, Ann Dettmer, and Rubi Leeds

- Tabletop exercises: How you can use them to prepare for water system incidents. Jack Moyer

#### **Volumen 97, Número 9, Septiembre 2005**

- Meeting customer expectations in a fluid utility environment. Roger Patrick and Edward G. Means III
- Linking water quality to the watershed: Developing tools for source water protection. John M. Peckenham, Catherine V. Schmitt, Jeffrey L. McNelly, and Andrews L. Tolman
- Fixed-bed biological treatment of perchlorate-contaminated drinking water. Jess C. Brown, Ryan D. Anderson, Joon H. Min, Lina Boulos, David Prasifka, and Graham J.G. Jub

#### **Volumen 97, Número 10, Octubre 2005**

- State of the industry report 2005: A guide for good health. Jon Runge and John Mann
- Scenario planning: A tool to manage future water utility uncertainty. Ed Means, Roger Patrick, Lorena Ospina, and Nicole West
- A standard efficiency metric for evaluating the performance of community water systems. Jeffrey W. Rogers and Garrick E. Louis
- Have utilities switched to chloramines? Chad J. Seidel, Michael J. McGuire, R. Scott Summers, and Steve Via

#### **Volumen 97, Número 11, Noviembre 2005**

- The regulatory horizon: Implications for water utilities. Edward G. Means III, Nicole West, and Roger Patrick
- Envisioning the future water utility. Garrett P. Westerhoff, Hy Pomerance, and David Sklar
- Authentic intelligence: Automated decision-making through GTSM. John (Woody) Wodraska and Jack Hampson

#### **Volumen 97, Número 12, Diciembre 2005**

- Minneapolis Water Works' ultrafiltration plant gets off to a big start. Jonathan Pressdee, Shahin Rezaia, and Chad Hill
- Use of riverbank filtration for IESWTR compliance. William D. Gollnitz, Jennifer L. Clancy, Brock McEwen and Stephen C. Garner
- Comparison of conventional and biological filter performance for Cryptosporidium and microsphere removal. James E. Amburgey, Appiah Amirtharajah, Marjorie T. York, Barbara M. Brouckaert, Neal C. Spivey, and Michael J. Arrowood

#### **Volumen 98, Número 1, Enero 2006**

- Technology trends and their implications for water utilities. Edward G. Means III, Joseph Bernosky, and Roger Patrick
- Prioritizing capital improvement projects to mitigate risk. Ryan W. Nagel and Mike Elenbaas

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- Asset management planning and reporting options for water utilities. Mike Matichich, Jason Allen, and Robert Allen

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### Volumen 131, Número 9, Septiembre 2005

- Inactivation of Bacillus Spores by Ultraviolet or Gamma Radiation. Ernest R. Blatchley, III, Anne Meeusen, Arthur I. Aronson, and Lindsay Brewster
- Volatilization Characteristics of Organic Compounds in the Coagulation Process. Huan-Ping Chao, Jiunn-Fwu Lee, Chung-Kung Lee, and Hui-Chen Huang
- Diffusive Behavior of Bedform-Induced Hyporheic Exchange in Rivers. Andrea Marion and Mattia Zaramella
- Particle Size Distribution in Highway Runoff. Yingxia Li, Sim-Lin Lau, Masoud Kayhanian, and Michael K. Stenstrom
- Retrospective Comparison of Watershed Analysis Risk Management Framework and Hydrologic Simulation Program Fortran Applications to Mica Creek Watershed. Carl W. Chen, J. W. Herr, R. A. Goldstein, G. Ice, and T. Cundy
- Cometabolic Transformation of High Concentrations of 4-Chlorophenol in an Immobilized Cell Hollow Fiber Membrane Bioreactor. Yi Li and Kai-Chee Loh
- Arsenite Oxidation by Alcaligenes faecalis Strain O1201. Arthon Suttigarn and Yi-Tin Wang
- Removal of Refractory Organic Compounds in Liquid Swine Manure Obtained from a Biofiltration Process Using an Electrochemical Treatment. Rachid Laridi, Patrick Drogui, Hamel Benmoussa, Jean-François Blais, and Jean Christian Auclair
- Landfill Settlement with Decomposition and Gas Generation. Ertan Durmusoglu, M. Yavuz Corapcioglu, and Kagan Tuncay
- Removal of Methyl Isobutyl Ketone From Contaminated Air by Trickle-Bed Air Biofilter. Zhangli Cai, Daekeun Kim, and George A. Sorial
- Emission Standards Development for an Inspection/Maintenance Program. M. Kazopoulo, M. El Fadel, and I. Kaysi
- Stability of Silicate Coatings on Pyrite Surfaces in a Low pH Environment. David M. Kargbo and Sabyasachi Chatterjee

### Volumen 131, Número 10, Octubre 2005

- Processes Governing Flow and Chemical Characteristics of Discharges from Free-Draining, Underground Coal Mines. Kathleen M. McDonough, Douglas C. Lambert, Pradeep Mugunthan, and David A. Dzombak
- Camp and Stein's Velocity Gradient Formalization. Francisco Pedocchi and Ismael Piedra-Cueva
- Air–Water Mass Transfer on a Stepped Waterway. L. Toombes and H. Chanson
- Mechanistic Model for CaSO<sub>4</sub> Fouling on Nanofiltration Membrane. Che-Jen Lin, Saqib Shirazi, and Pritesh Rao
- Alternative Approaches to Modeling Fluence Distribution and Microbial Inactivation in Ultraviolet Reactors: Lagrangian versus Eulerian. Joel J. Ducoste, Dong Liu, and Karl Linden
- Parameters Affecting Hydraulic Behavior of Aerated Lagoons. R. A. Delatolla and S. Babarutsi
- Bacteria Loads from Point and Nonpoint Sources in an Urban Watershed. Tina M. Petersen, Hanadi S. Rifai, Monica P. Suarez, and A. Ron Stein
- Engineered Struvite Precipitation: Impacts of Component-Ion Molar Ratios and pH. Jun Wang, Joel G. Burken, Xiaoqi (Jackie) Zhang, and Rao Surampalli
- Photochemical Destruction of Tetrachloroethylene and Trichloroethylene from the Exhaust of an Air Stripper. Kenneth Y. Lee and Jeong-Yub Lee
- Physical Properties of Vegetable Oil and Chlorinated Ethene Mixtures. Patricia R. Pfeiffer, Angela R. Bielefeldt, Tissa Illangasekare, and Bruce Henry
- Airborne Particles in New Museum Facilities. Lynn G. Salmon, Paul R. Mayo, Glen R. Cass, and Christos S. Christoforou
- Disinfection By-Product Precursor Adsorption as Function of GAC Properties: Case Study. Rafael Rodriguez-Fuentes, Brian A. Hiltz, and Bruce I. Dvorak
- Derivation of a General Adsorption Isotherm Model. Yu Liu, Hui Xu, and Joo-Hwa Tay
- Simultaneous Nitrogen and Phosphorus Removal in a Continuously Fed and Aerated Membrane Bioreactor. Ladan Holakoo, George Nakhla, Ernest K. Yanful, and Amarjeet S. Bassi
- Effects of Clay Content and Temperature on Crude Oil (Nonvolatile Components) Transport in Unsaturated Soils: Centrifuge Study. R. C. K. Wong

### **Volumen 131, Número 11, Noviembre 2005**

- Nonlinear Behavior of Permeate Flux in Full-Scale Reverse Osmosis Processes. Kwee Guan Tay, Lianfa Song, S. L. Ong, and W. J. Ng
- Effect of Adsorbent Particle Layering on Performance of Conventional and Tapered Fixed-Bed Adsorbers. Alexander P. Mathews
- Modeling Cr(VI) Reduction and Phenol Degradation in a Coculture Biofilm Reactor. Evans M. Nkhalambayausi-Chirwa and Yi-Tin Wang
- Study on Optimal Conditions for Recovery of EDTA from Soil Washing Effluents. Irene M. C. Lo and Weihua Zhang
- Modified Larsons Ratio Incorporating Temperature, Water Age, and Electroneutrality Effects on Red Water Release. S. A. Imran, J. D. Dietz, G. Mutoti, J. S. Taylor, and A. A. Randall
- Evaluation and Optimization of Bioretention Media for Treatment of Urban Storm Water Runoff. Chi-hsu Hsieh and Allen P. Davis

## REVISTAS DE INTERÉS

- Pilot Scale Demonstration of Cross-Flow Ceramic Membrane Microfiltration for Treatment of Combined and Sanitary Sewer Overflows. John A. Bendick, Charles J. Miller, Betty Jo Kindle, Huifeng Shan, Radisav D. Vidic, and Ronald D. Neufeld
- Computer Program Development for the Design of Integrated Fixed Film Activated Sludge Wastewater Treatment Processes. Tongchai Sriwiriyarat, Clifford W. Randall, and Dipankar Sen
- Evaluation of Integrated Fixed Film Activated Sludge Wastewater Treatment Processes at High Mean Cells Residence Time and Low Temperatures. Tongchai Sriwiriyarat and Clifford W. Randall
- Effects of Sodium Chloride on the Performance of a Sequencing Batch Reactor. How Y. Ng, Say L. Ong, and Wun J. Ng
- Air Permeability of Waste in a Municipal Solid Waste Landfill. Pradeep Jain, Jon Powell, Timothy G. Townsend, and Debra R. Reinhart
- Characteristics and Reactivity of Algae-Produced Dissolved Organic Carbon. My-Linh Nguyen, Paul Westerhoff, Lawrence Baker, Qiang Hu, Mario Esparza-Soto, and Milton Sommerfeld
- Investigating Role of Growing Adsorbent Bed in a Dead-End PAC/UF Process. Joseph E. Williams, Ramesh Goel, Joseph R. V. Flora, and Radisav Vidic
- Analytical Models for the Design of Iron-Based Permeable Reactive Barriers. Alan J. Rabideau, Raghavendra Suribhatla, and James R. Craig
- Competitive Effects of Trichloroethylene on Cr(VI) Removal by Zero-Valent Iron. Irene M. C. Lo, Chester S. C. Lam, and Keith C. K. Lai
- Stimulating Biological Nitrification via Electrolytic Oxygenation. Ramesh Goel and Joseph R. V. Flora

### Volumen 131, Número 12, Diciembre 2005

- Filtration Removals of Microorganisms and Particles. David W. Hendricks, William F. Clunie, Gregory D. Sturbaum, Donald A. Klein, Tory L. Champlin, Paul Kugrens, Julie Hirsch, Bill McCourt, George R. Nordby, Mark D. Sobsey, D. John Hunt, and Martin J. Allen
- Membrane Pervaporation for Wastewater Reuse in Microirrigation. Edgar Quiñones-Bolaños, Hongde Zhou, and Gary Parkin
- Reduction of Particle Reentrainment Using Porous Fence in Front of Dust Samples. Cheng-Hsiung Huang, Chin-I Lee, and Chuen-Jinn Tsai
- Regular Transient Loading Response in a Vapor-Phase Flow-Direction-Switching Biofilter. William F. Wright, Edward D. Schroeder, and Daniel P. Y. Chang
- Dual Conditioning of Sludge Utilizing Polyampholyte. J. S. Wang, J. C. Liu, and D. J. Lee
- Use of Layered Geotextiles to Provide a Substrate for Biomass Development in Treatment of Septic Tank Effluent Prior to Ground Infiltration. Cevat Yaman, Joseph P. Martin, and Eyup Korkut
- Influence of Wastewater Constituents on Hydrogen Sulfide Emission in Sewer Networks. Chaturong Yongsiri, Jes Vollertsen, and Thorkild Hvitved-Jacobsen
- Effect of Nonsteady state H<sub>2</sub>O<sub>2</sub> Tests on Oxygen Transfer Rate in Enhanced Biological Phosphorus Removal Process. Venkatram Mahendrakar, Donald S. Mavinic, and Barry Rabinowitz
- Dynamic Growth Rates of Microbial Populations in Activated Sludge Systems. Peter G. Stroot, Pascal E. Saikaly, and Daniel B. Oerther

- Estimating Nutrient Outflow from Agricultural Watersheds to the River Kali in India. Ramakar Jha, C. S. P. Ojha, and K. K. S. Bhatia
- One-Dimensional Gas Flow Model for Horizontal Gas Collection Systems at Municipal Solid Waste Landfills. Timothy G. Townsend, William R. Wise, and Pradeep Jain
- Factors Affecting Effectiveness and Efficiency of DNAPL Destruction Using Potassium Permanganate and Catalyzed Hydrogen Peroxide. Michelle L. Crimi and Robert L. Siegrist
- Degradation of Toxaphene by Zero-Valent Iron and Bimetallic Substrates. Clayton J. Clark, II, Xiaosong Chen, and Seethu Babu
- Two-Dimensional Simulation Model of Sediment Removal and Flow in Rectangular Sedimentation Basin. Postprocessing the Hybrid Method for Addressing Uncertainty in Risk Assessments. Cédric Baudrit, Dominique Guyonnet, and Didier Dubois
- Simplified Model for the Class-I Settling Tanks Design. Yee-Chung Jin, Fang Lu, and Md. Badruzzaman

### **Volumen 132, Número 1, Enero 2006**

- Arsenic Removal from Water by Moving Bed Active Filtration. Remembrance L. Newcombe, Brian K. Hart, and Gregory Möller
- MS2 Inactivation by Chloride-Assisted Electrochemical Disinfection. Qian Fang, Chii Shang, and Guohua Chen
- Anaerobic Filter Treatment of Municipal Wastewater: Biosolids Behavior. Ioannis D. Manariotis and Sotirios G. Grigoropoulos
- Simultaneous and Sequential Photosynthesis of TCE and PCE. Chikashi Sato and Jun Yao
- Simulating Activated Sludge System by Simple-to-Advanced Models. H. Shahriari, C. Eskicioglu, and R. L. Droste
- Treatment of Polishing Wastewater from Semiconductor Manufacturer by Dispersed Air Flotation. C. Y. Lien and J. C. Liu
- Enhancement of Remediation of NAPL Contaminated Fractured Permeable Formations -Modeling Study. Hillel Rubin, Klaus Rathfelder, Martin Spiller, and Jürgen Köngeter
- Respirometric Assessment of Primary Sludge Fermentation Products. Emine Ubay Cokgor, Gulsum Emel Zengin, Didem Okutman Tas, Seda Oktay, Clifford Randall, and Derin Orhon
- Effects of Nutrient Source and Supply on Crude Oil Biodegradation in Continuous-Flow Beach Microcosms. Brian A. Wrenn, Kathryn L. Sarnecki, Eugene S. Kohar, Kenneth Lee, and Albert D. Venosa
- Investigation of Boundary Shear Stress and Pollutant Detachment from Impervious Surface during Simulated Urban Storm Runoff. C. P. Richardson and G. A. Tripp
- Evaluation of Mixing Energy in Laboratory Flasks Used for Dispersant Effectiveness Testing. Vikram J. Kaku, Michel C. Boufadel, and Albert D. Venosa
- PCB Volatilization from Sediments. Shuang Qi, Cristina Alonso, Makram T. Suidan, and Gregory D. Sayles
- Biotreatment of Surfactant Flush Wastewater from Wood Treatment Soil. Todd L. Cort, Sung-Kil Park, Chenine Wozniak, and Angela R. Bielefeldt
- Fuzzy Geographic Information Systems for Phytoremediation Plant Selection. Andrea Porter, Adel Sadek, and Nancy Hayden

## REVISTAS DE INTERÉS

- Treatment of High-Strength Pharmaceutical Wastewater and Removal of Antibiotics in Anaerobic and Aerobic Biological Treatment Processes. Ping Zhou, Chengyi Su, Binwei Li, and Yi Qian

### **Volumen 132, Número 2, Febrero 2006**

- Lime-Soda Softening Process Modifications for Enhanced NOM Removal. Mustafa Bob and Harold W. Walker
- Potential of a Combination of UASB and DHS Reactor as a Novel Sewage Treatment System for Developing Countries: Long-Term Evaluation. Madan Tandukar, Izzatul Machdar, Shigeki Uemura, Akiyoshi Ohashi, and Hideki Harada
- Effect of Cd(II) on Different Bacterial Species Present in a Single Sludge Activated Sludge Process for Carbon and Nutrient Removal. Yung-Pin Tsai, Sheng-Jie You, Tzu-Yi Pai, and Ko-Wei Chen
- Air/Water Oxygen Transfer in a Biological Aerated Filter. Susanna M. Leung, John C. Little, Troy Holst, and Nancy G. Love
- Treatment of Dilute Wastewaters Using a Novel Submerged Anaerobic Membrane Bioreactor. Alan Y. Hu and David C. Stuckey
- Field Monitoring of a Permeable Reactive Barrier for Removal of Chlorinated Organics. Keith C. K. Lai, Irene M. C. Lo, Vibeke Birkelund, and Peter Kjeldsen
- Improved Compartmental Modeling and Application to Three-Phase Contaminant Transport in Unsaturated Porous Media. Xuefeng Chu and Miguel A. Mariño
- Characterization of Methane Flux and Oxidation at a Solid Waste Landfill. Tarek Abichou, David Powelson, Jeffery Chanton, Sharon Escoriza, and Jennifer Stern
- Modeling the Sorption of Fluoride onto Alumina. H. R. Fletcher, D. W. Smith, and P. Pivonka
- Citric Acid Enhanced Remediation of Soils Contaminated with Uranium by Soil Flushing and Soil Washing. Cetin Kantar and Bruce D. Honeyman
- Remediation of RDX-Contaminated Water Using Alkaline Hydrolysis. Sangchul Hwang, Deborah R. Felt, Edward J. Bouwer, Michael C. Brooks, Steven L. Larson, and Jeffrey L. Davis
- Behavior of an Air Curtain Subjected to Transversal Pressure Variations. Olivier Rouaud and Michel Havet
- Handling of Urban Snow with Regard to Snow Quality. Karin Reinosdotter and Maria Viklander
- Biodegradability of Surfactants under Aerobic, Anoxic, and Anaerobic Conditions. Prasanna K. Mohan, George Nakhla, and Ernest K. Yanful
- Wastewater Treatment with Biomass Attached to Porous Geotextile Baffles. Eyüp Nafiz Korkut, Joseph P. Martin, and Cevat Yaman

### **Volumen 132, Número 3, Marzo 2006**

- Sulfur Impregnation on Activated Carbon Fibers through H<sub>2</sub>S Oxidation for Vapor Phase Mercury Removal. Wenguo Feng, Seokjoon Kwon, Xue Feng, Eric Borguet, and Radisav D. Vidic
- Determination and Correlation of Binary Gas Adsorption Equilibria of VOCs. Shuji Himeno and Kohei Urano
- Continuous Cometabolic Transformation of 4-Chlorophenol in the Presence of Phenol in a Hollow Fiber Membrane Bioreactor. Yi Li and Kai-Chee Loh

- Evaluation of Water Reuse Technologies for the Textile Industry. Sarina J. Ergas, Brian M. Therriault, and David A. Reckhow
- Electrochemical Oxidation and Ozonation for Textile Wastewater Reuse. Ehud N. Leshem, David S. Pines, Sarina J. Ergas, and David A. Reckhow
- Integration of Processes to Treat Wastewater and Source-Separated Urine. Jac A. Wilsenach and Mark C. M. van Loosdrecht
- Removal of Inorganic Mercury from Polluted Water Using Structured Nanoparticles. Sadott Pacheco, Martín Medina, Félix Valencia, and Josefina Tapia
- Removal of Toluene Vapor with Dispersed Activated Carbon. M. J. Tierney, S. Prasertmanukitch, and S. Heslop
- Bioreduction of Hexavalent Chromium in Flow-Through Quartz Sand Columns. Mahbub Alam, Md. Akram Hossain, David R. Yonge, Brent M. Peyton, and James N. Petersen
- Fenton and Electro-Fenton Methods for Oxidation of H-Acid and Reactive Black 5. N. N. Rao, Gaurav Bose, Pradnya Khare, and S. N. Kaul
- Surface Analysis of Chesapeake Bay Water Quality Response to Different Nutrient and Sediment Loads. Ping Wang, Lewis C. Linker, Richard Batiuk, and Carl Cerco
- Bioavailability Prediction of Polycyclic Aromatic Hydrocarbons in Field-Contaminated Sediment by Mild Extractions. Li Lei, Rajesh Bagchi, Amid P. Khodadoust, Makram T. Suidan, and Henry H. Tabak
- Screening Level Risk Assessment of Heavy Metal Contamination in Cleveland Area Commons. Elijah J. Petersen, Aaron A. Jennings, and Jun Ma
- Particulate Matter from Stone Crushing Industry: Size Distribution and Health Effects. R. Sivacoumar, R. Jayabalou, S. Swarnalatha, and K. Balakrishnan
- Oil and Grease Measurement in Highway Runoff—Sampling Time and Event Mean Concentrations. Sabbir Khan, Sim-Lin Lau, Masoud Kayhanian, and Michael K. Stenstrom
- Simultaneous Removal of Carbon and Nitrogen from Swine Wastewater Using an Immobilized-Cell Reactor. Yun-Huin Lin, Sz-Chwun John Hwang, Jane-Yii Wu, Feng-Yueh Chang, and Kuo-Cheng Chen

#### **Volumen 132, Número 4, Abril 2006**

- Simultaneous Removal of Cd and Cr(VI) Using Fe-Loaded Zeolite. Seunghak Lee, Kwanghun Lee, and Junboun Park
- Nutrient Removal in a Cold-Region Wastewater Stabilization Pond: Importance of Ammonia Volatilization. Karl J. Rockne and Patrick L. Brezonik
- Dissolution of Wollastonite in a Packed Bed Contactor. Gunwant Singh Anand, Anant Sriram, and Raymond D. Letterman
- Enhancement of Denitrification in Upflow Sludge Bed Reactors with Sludge Wasting. Wen-Huei Ting and Ju-Sheng Huang
- Comparison of Two Model Concepts for Simulation of Nitrogen Removal at a Full-Scale Biological Nutrient Removal Pilot Plant. J. Makinia, K.-H. Rosenwinkel, and V. Spering
- Anaerobic Degradability: Effect of Particulate COD. S. Prashanth, Pradeep Kumar, and Indu Mehrotra
- TCLP Heavy Metal Leaching of Personal Computer Components. Yadong Li, Jay B. Richardson, Aaron K. Walker, and Pao-Chiang Yuan
- Evaluation of Contaminant Resuspension Potential during Cap Placement at Two Dissimilar Sites. Terrence Lyons, Jennifer A. Ickes, Victor S. Magar, Carl S. Albro,

- Lydia Cumming, Brenda Bachman, Thomas Fredette, Tommy Myers, Mike Keegan, Ken Marcy, and Olga Guza
- Treatment of Acid Rock Drainage in a Meromictic Mine Pit Lake. Timothy S. R. Fisher and Gregory A. Lawrence
  - Evaluating an Electrokinetically Driven Extraction Method for Measuring Heavy Metal Soil Contamination. Xiaolin Deng and Aaron A. Jennings
  - Development of a Simple Phosphorus Model for a Large Urban Watershed: A Case Study. Howard S. Litwack, Joseph L. DiLorenzo, Poshu Huang, and Tavit O. Najarian
  - Quantifying Long-Term NPS Pollutant Flux in an Urbanizing Watershed. Mark Dougherty, Randel L. Dymond, Thomas J. Grizzard, Jr., Adil N. Godrej, Carl E. Zipper, and John Randolph
  - Integrated Hydrodynamic and Water Quality Modeling System to Support Nutrient Total Maximum Daily Load Development for Wissahickon Creek, Pennsylvania. Rui Zou, Stephen Carter, Leslie Shoemaker, Andrew Parker, and Thomas Henry
  - Commercial Odor-Reducing Agents for Minimizing the Odor Potential of Asphalt Binders. Clifford R. Lange, Mary Stroup-Gardiner, and Winter Smith

### Journal of Hydraulic Engineering (ASCE)

<http://www.pubs.asce.org/journals/hy.html>



### Volumen 131, Número 9, Septiembre 2005

- Tsunami Run-up—A Hydraulic Perspective. Valentin Heller, Jens Unger, and Willi Hager
- Dual Multilevel Urban Drainage Model. C. Nasello and T. Tucciarelli
- GIS Based Distributed Model for Soil Erosion and Rate of Sediment Outflow from Catchments. Manoj K. Jain, Umesh C. Kothiyari, and Kittur G. Ranga Raju
- Measurement of Fluctuating Pressures on Coarse Bed Material. Bas Hofland, Jurjen A. Battjes, and Robert Booij
- Effects of Groyne Layout on the Flow in Groyne Fields: Laboratory Experiments. Wim S. J. Uijttewaal
- Friction Factors for Spatially Varied Flow with Increasing Discharge. Simon Beecham, Mehdi H. Khiadani, and Jaya Kandasamy
- 3D Unsteady RANS Modeling of Complex Hydraulic Engineering Flows. I: Numerical Model. Liang Ge and Fotis Sotiropoulos

- 3D Unsteady RANS Modeling of Complex Hydraulic Engineering Flows. II: Model Validation and Flow Physics. Liang Ge, Seung Oh Lee, Fotis Sotiropoulos, and Terry Sturm
- Discharge Ratio of Side Outflow to Supercritical Channel Flow. Kazumasa Mizumura
- Decay of Turbulence Downstream of a Stilling Basin. A. L. Urban, S. C. Wilhelms, and J. S. Gulliver

**Volumen 131, Número 10, Octubre 2005**

- Development and Evaluation of a New Helical Fish-Friendly Hydroturbine. George E. Hecker and Thomas C. Cook
- Preliminary Assessment and Rating of Stream Channel Stability near Bridges. P. A. Johnson
- Experimental Investigation of Surges in a Stormwater Storage Tunnel. Jose G. Vasconcelos and Steven J. Wright
- Channel Shape and Turbulence Issues in Flood Flow Hydraulics. Hervé P. Morvan
- Growth Model for Sand Wavelets. D. Zhou and C. Mendoza
- Vertical Dispersion of Fine and Coarse Sediments in Turbulent Open-Channel Flows. Xudong Fu, Guangqian Wang, and Xuejun Shao
- Numerical Simulation of Supercooling Process and Frazil Ice Evolution. Shuang Ming Wang and J. C. Doering
- Neural Networks for Estimation of Scour Downstream of a Ski-Jump Bucket. H. Md. Azmathullah, M. C. Deo, and P. B. Deolalikar
- Simulation of Hydropneumatic Tanks in Computer Pipe Network Models. R. Scott Smith
- Brief Analysis of Shallow Water Equations Suitability to Numerically Simulate Supercritical Flow in Sharp Bends. Alessandro Valiani and Valerio Caleffi
- Three-Dimensional Modeling of Sediment Transport in a Narrow 90° Channel Bend. Nils Rütger and Nils Reidar B. Olsen
- Transport Capacity for Eroded Silts in Irrigation Furrows. T. S. Strelkoff and A. J. Clemmens

**Volumen 131, Número 11, Noviembre 2005**

- Case Study: Modeling the Lateral Mobility of the Rio Grande below Cochiti Dam, New Mexico. Gigi A. Richard, Pierre Y. Julien, and Drew C. Baird
- Wire Gabion for Protecting Bridge Piers. Tae Hoon Yoon
- Effects of Flood Flow on Flood Plain Soil and Riparian Vegetation in a Gravel River. Yuji Toda, Syunsuke Ikeda, Kentaro Kumagai, and Takeshi Asano
- Effect of Sand Supply on Transport Rates in a Gravel-Bed Channel. Joanna C. Curran and Peter R. Wilcock
- Formula for Sediment Transport in Rivers, Estuaries, and Coastal Waters. Shu-Qing Yang
- Analytical Approach to Calculate Rate of Bank Erosion. Jennifer G. Duan
- Predicting Longitudinal Dispersion Coefficient in Natural Streams by Artificial Neural Network. Gokmen Tayfur and Vijay P. Singh
- Regional Streamflow Estimation by Standard Regional Dependence Function Approach. Abdüsselam Altunkaynak, Mehmet Özger, and Zekaisen
- Choice of Percentiles and Axes to Determine Grain Resistance. Julian C. Green

## REVISTAS DE INTERÉS

- Energy Model to Predict Suspended Load Deposition Induced by Woody Debris: Case Study. Terry L. Stewart and Jay F. Martin
- Bench-Scale Investigation of Inclined Dense Jets. A. Cipollina, A. Brucato, F. Grisafi, and S. Nicosia

### **Volumen 131, Número 12, Diciembre 2005**

- Toward Nonintrusive Flood Discharge Measurement. Olivier Baud, Willi H. Hager, and Hans-Erwin Minor
- Scour in Long Contractions. Subhasish Dey and Rajkumar V. Raikar
- Analyzing Turbulence Intensity in Gravel Bed Channels. Francesco Giuseppe Carollo, Vito Ferro, and Donatella Termini
- Turbulence Measurements with Acoustic Doppler Velocimeters. Carlos M. García, Mariano I. Cantero, Yarko Niño, and Marcelo H. García
- Three-Dimensional Numerical Model for Flow and Bed Deformation around River Hydraulic Structures. Nobuhisa Nagata, Takashi Hosoda, Tatsuaki Nakato, and Yoshio Muramoto
- Dispersion of Neutrally Buoyant Horizontal Round Jet in Wave Environment. Yonguk Ryu, Kuang-An Chang, and Nobuhito Mori
- Mathematical Formulation and Validation of a Mixed Finite Element–Finite Difference Model for Simulating Phreatic Surfaces. Shabbir Ahmed
- Standing Wave Difference Method for Leak Detection in Pipeline Systems. Dídia Covas, Helena Ramos, and A. Betâmio de Almeida
- Pipe Index Vector: A Method to Improve Genetic-Algorithm-Based Pipe Optimization. Kalanithy Vairavamoorthy and Mohammed Ali
- Flow Field at a Vertical-Wall Abutment. Subhasish Dey and Abdul Karim Barbhuiya
- Effect of Bed Armoring on Bed Topography of Channel Bends. Ahmed Kassem and M. Hanif Chaudhry
- Simulated Moving Bed Form Effects on Real-Time In-Stream Sediment Concentration Measurement with Densitometry. E. W. Tollner, Todd C. Rasmussen, Bruce Upchurch, and Jai Sikes

### **Volumen 132, Número 1, Enero 2006**

- Case Study: Mapping Tsunami Hazards Associated with Debris Flow into a Reservoir. Joseph S. Walder, Philip Watts, and Christopher F. Waythomas
- Case Study: Application of GPR to Detection of Hidden Dangers to Underwater Hydraulic Structures. Xingxin Xu, Jin Wu, Jinyin Shen, and Zaicheng He
- Scour around Bankline and Setback Abutments in Compound Channels. Terry W. Sturm
- Similitude of Large-Scale Turbulence in Experiments on Local Scour at Cylinders. Robert Ettema, Gokhan Kirkil, and Marian Muste
- Energy Dissipation on Block Ramps. Stefano Pagliara and Pietro Chiavaccini
- Forces on Plunge Pool Slabs: Influence of Joints Location and Width. J. F. Melo, A. N. Pinheiro, and C. M. Ramos
- Experimental Study of Flow in a Vortex Drop Shaft. Can-Hua Zhao, David Z. Zhu, Shuang-Ke Sun, and Zhi-Ping Liu
- Dam-Break Wave-Front Celerity. João Gouveia Aparício Bento Leal, Rui Miguel Lage Ferreira, and António Heleno Cardoso

- Sediment Transport in River Models with Overbank Flows. Xiaonan Tang and Donald W. Knight
- Asymptotic Solutions for One-Dimensional Dispersion in Rivers. Bruce Hunt
- Laboratory Experiments on Frazil-Size Characteristics in a Counterrotating Flume. Shawn Clark and Jay Doering
- Adjusting Nodal Demands in SCADA Constrained Real-Time Water Distribution Network Models. J. W. Davidson and F. J.-C. Bouchart

### **Volumen 132, Número 2, Febrero 2006**

- Case Study: Refinement of Hydraulic Operation of a Complex CSO Storage/Treatment Facility by Numerical and Physical Modeling. Cheng He, Jiri Marsalek, Quintin Rochfort, and Bommanna G. Krishnappan
- Historic Discharge Measurements in Three Rhine Branches. Annika W. Hesselink, Maarten G. Kleinhans, and Gerard L. Boreel
- Electromagnetic Wave Surface Velocimetry. Jong-Seok Lee and Pierre Y. Julien
- Reduction of Local Scour in the Vicinity of Bridge Pier Groups Using Collars and Riprap. A. R. Zarrati, M. Nazariha, and M. B. Mashahir
- Functional Relationships of Resistance in Wide Flood Plains with Rigid Unsubmerged Vegetation. F. A. Musleh and J. F. Cruise
- Critical Bed Shear Stress for Unisize Sediment. Oscar A. Sarmiento and Marco A. Falcon
- Sediment Transport over Ripples in Oscillatory Flow. Emily A. Zedler and Robert L. Street
- Analytical Solution of the Burgers Equation for Simulating Translatory Waves in Conveyance Channels. Samuel Nii Odai, Naritaka Kubo, Kotaro Onizuka, and Koji Osato
- Detection of Partial Blockage in Single Pipelines. P. K. Mohapatra, M. H. Chaudhry, A. A. Kassem, and J. Moloo
- Asymmetric Flow in Symmetric Supercritical Expansions. S. David Graber
- 3D Simulation of Combining Flows in 90° Rectangular Closed Conduits. A. S. Ramamurthy, Junying Qu, and Chao Zhai

### **Volumen 132, Número 3, Marzo 2006**

- Case Study of Precision of GPS Differential Correction Strategies: Influence on aDcp Velocity and Discharge Estimates. Colin D. Rennie and Francois Rainville
- Countermeasure Toe Protection at Spill-Through Abutments. Bruce Melville, Sjoerd van Ballegooy, Stephen Coleman, and Brian Barkdoll
- Scour Downstream of an Apron Due to Submerged Horizontal Jets. Subhasish Dey and Arindam Sarkar
- 2D Shallow-Water Model Using Unstructured Finite-Volumes Methods. Dan K. Nguyen, Yu-E Shi, Sam S. Y. Wang, and The Hung Nguyen
- Control of Scour at Vertical Circular Piles under Waves and Current. Subhasish Dey, B. Mutlu Sumer, and Jørgen Fredsøe
- Dam Break Wave of Thixotropic Fluid. H. Chanson, S. Jarny, and P. Coussot
- Time-Line Interpolation Errors in Pipe Networks. Masashi Shimada, Jim Brown, Della Leslie, and Alan Vardy
- Three-Dimensional Topography of Debris-Flow Fan. Yuan-Fan Tsai

## REVISTAS DE INTERÉS

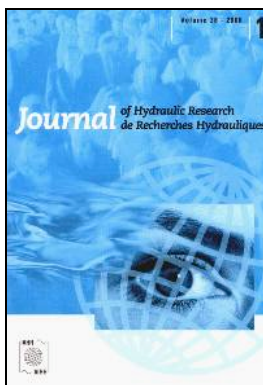
- Bridge Blockage and Overbank Flow Simulations Using HEC–RAS in the Keelung River during the 2001 Nari Typhoon. Kwan Tun Lee, Yao-Hsien Ho, and Yuh-Ju Chyan
- Flow-Induced Failure of Cable-Tied Blocks. Bruce Melville, Rick van Ballegooy, and Sjoerd van Ballegooy

### Volumen 132, Número 4, Abril 2006

- Evaluation of the Micromodel: An Extremely Small-Scale Movable Bed Model. Stephen T. Maynard
- Riprap Failure at Circular Bridge Piers. Jens Unger and Willi H. Hager
- Entrainment Properties of Plane Surface-Jets in Shallow Current. R. E. Baddour, A. Zaghloul, and R. Martinuzzi
- Unstructured Grid Finite-Volume Algorithm for Shallow-Water Flow and Scalar Transport with Wetting and Drying. Lorenzo Begnudelli and Brett F. Sanders
- Explicit Integration Method for Extended-Period Simulation of Water Distribution Systems. Jakobus E. van Zyl, Dragan A. Savic, and Godfrey A. Walters
- *RiverSpill*: A National Application for Drinking Water Protection. William B. Samuels, David E. Amstutz, Rakesh Bahadur, and Jonathan M. Pickus
- Marine Wastewater Discharges from Multiport Diffusers. III: Stratified Stationary Water. Gregory J. Daviero and Philip J. W. Roberts
- Marine Wastewater Discharges from Multiport Diffusers. IV: Stratified Flowing Water. Xiaodong Tian, Philip J. W. Roberts, and Gregory J. Daviero
- Effect of Convergence on Nonlinear Flow in Porous Media. N. Bhanu Prakasham Reddy and P. Rama Mohan Rao
- Numerical Simulation of Obstructed Round Buoyant Jets in a Static Uniform Ambient. Wenxin Huai and Shenguang Fang

### Journal of Hydraulic Research

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### Volumen 43, Número 5

- Developing a toolkit for fish passage, ecological flow management and fish habitat works. C. Katopodis
- Development and testing of a numerical code for treatment of complex river channel topography in three-dimensional CFD models with structured grids. R.J. Hardy, S.N. Lane, M.R. Lawless, J.L. Best, L. Elliott and D.B. Ingham

- Direct measurement of vegetation resistance in prototype scale. A. Armanini, M. Righetti and P. Grisenti
- Transportational cyclic steps created by flow over an erodible bed. Part 1. Experiments. K. Taki and G. Parker
- Transportational cyclic steps created by flow over an erodible bed. Part 2. Theory and numerical simulation. T. Sun and G. Parker
- Backwater of arch bridges under free and submerged conditions. J.P. Martín-Vide and J.M. Prió
- Bubbles and waves description of self-aerated spillway flow. S. C. Wilhelms and J. S. Gulliver
- Gas transfer, cavitation, and bulking in self-aerated spillway flow. S. C. Wilhelms and J. S. Gulliver
- Experimental study of transition and skimming flows on stepped spillways in RCC dams: qualitative analysis and pressure measurements. M. Sanchez-Juny and J. Dolz
- Effect on turbulence production due to sudden change in flow regimes. I. M. Khan, R. R. Simons and A. J. Grass
- Probabilistic leak detection in pipelines using the mass imbalance approach. J. Rougier
- Erosion of sand beds by obliquely impinging plane turbulent air jets. K. A. Mazurek and N. Rajaratnam
- On optimal model complexity in inverse modeling of heterogeneous aquifers. A. Mantoglou

**Volumen 43, Número 6**

- Numerical simulations of the behavior of alternate bars with different bank strengths. Chang-Lae Jang and Yasuyuki Shimizu
- Modeling downstream fining in sand-bed rivers. I: formulation. S. Wright and G. Parker
- Modeling downstream fining in sand-bed rivers. II: application. S. Wright and G. Parker
- Low-Reynolds-number two-equation turbulence modelling for open channel flow: development and evaluation of free surface boundary conditions on the dissipation rate equation. M.A. Cotton, D. Reedha and P.K. Stansby
- Numerical examination on the secondary-current effect for contaminant transport in curved channel. Te-Yung Hsieh and Jinn-Chuang Yang
- Supercritical flow in sewer manholes. Willi H. Hager and Corrado Gisonni
- Combined optimization of pipes and control valves in water distribution networks. Giuseppe Pezzinga and Giuseppe Pititto
- Extended-period modeling of water pipe networks—a new approach. Jakobus E. van Zyl, Dragan A. Savic and Godfrey A. Walters
- Impingement of circular turbulent jets on rough boundaries. N. Rajaratnam and K.A. Mazurek
- A new method for calculating depth of scour pit caused by overflow water jets. Peiqing Liu
- Experimental study on the upstream water level rise and downstream scour length of a submerged dam. Zhicong Chen, Xuejun Shao and Junwu Zhang
- The effects of sediment on earthquake response of concrete gravity dams to asynchronous ground motion. Alemdar Bayraktar, Mehmet Akkose and Suleyman

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Adanur Means of noise reduction in acoustic turbulence measurements. K. Blanckaert, U. Lemmin

- Three-dimensional k-e numerical modelling of overbank flow in a mobile bed meandering channel with floodplains of different depth, roughness and planform. Peter R. Wormleaton, Manaye Ewunetu
- 3D flow field in a scour hole at a wing-wall abutment. Subhasish Dey, Abdul Karim Barbhuiya

### Volumen 44, Número 1

- Hydraulics of skimming flows on stepped chutes: The effects of inflow conditions? H. Chanson
- Estimation of scour below spillways using neural networks. H.Md. Azmathullah, M.C. Deo and P.B. Deolalikar
- 2D Numerical model of particle-bed collision in fluid-particle flows over bed. Nikolai Lukerchenko, Zdenek Chara and Pavel Vlasak
- NEWFLUME: a numerical water flume for two-dimensional turbulent free surface flows. Pengzhi Lin, Weilin Xu
- Prediction of instantaneous bottom shear stress for smooth turbulent bottom boundary layers under irregular waves. Hitoshi Tanaka, Mustafa Ataus Samad
- A linear method to evaluate energy fluxes in a wave flume. Martin Sanchez, Christophe Chevalier
- Study of air and water supply to old ironwork of Teixois-Taramundi (Asturias), Spain. Joaquín Fernández, Eduardo Blanco and Jorge L. Parrondo
- Simulation of unsteady flow and runner rotation during shut-down of an axial water turbine. Tomaš Kolšek, Jože Duhovnik and Anton Bergant
- Mixing layer oscillations for a submerged horizontal wall-jet. Lloyd H.C. Chua, Eng Ban Shuy

### Journal of Hydroinformatics

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### Volumen 7, Número 4, Octubre 2005

- Derivation of effective and efficient data set with subtractive clustering method and genetic algorithm. C. D. Doan, S. Y. Liong and Dulakshi S. K. Karunasinghe
- Integrated use of GIS-based field sampling and modeling for hydrologic and water quality studies. Enrique Vivoni and Kevin T. Richards

- User influences on knowledge structuring on the Internet: literature survey and case study of a global network of water professionals. Juliette Butcher, Paul Jeffrey and Richard Stuetz
- Using Bayesian networks to model watershed management decisions: an East Canyon Creek case study. Daniel P. Ames, Bethany T. Neilson, David K. Stevens and Upmanu Lall
- A 3D CFD model analysis of the hydraulics of an outfall structure at a power plant. Liaqat A. Khan, Edward A. Wicklein and Mizan Rashid
- The extrapolation of artificial neural networks for the modelling of rainfall-runoff relationships. P. Hettiarachchi, M. J. Hall and A. W. Minns

### Volumen 8, Número 1, Enero 2006

- Identification of submerged large woody debris from single-beam echo soundings. Laurent White, Ben R. Hodges, Barney N. Austin and Tim D. Osting
- A GIS-based tool for distribution system data integration and analysis. Martin Trépanier, Vincent Gauthier, Marie-Claude Besner and Michèle Prévost
- Mapping and interpretation of field data for evaluation and mitigation of groundwater arsenic contamination in Bangladesh. S. Shams, P. Bhattacharya, S. Langaas, G. Jacks, E.-L. Thunkvist, K. M. Ahmed, D. Chen and A. Granlund
- A Bayesian estimation of parameter-induced uncertainty in a nearshore alongshore current model. B. G. Ruessink
- Assessment of pathogen pollution in watersheds using object-oriented modeling and probabilistic analysis. Amin Elshorbagy, Ramesh S.V. Teegavarapu and Lindell Ormsbee
- Incorporation of artificial neural networks and data assimilation techniques into a third-generation wind-wave model for wave forecasting. Zhixu Zhang, Chi-Wai Li, Yok-Sheung Li and Yiquan Qi

### Journal of Hydrologic Engineering (ASCE)

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### Volumen 10, Número 5, Septiembre-October 2005

- Effect of Flow Proportions on HSPF Model Calibration Accuracy. Angélica L. Gutiérrez-Magness and Richard H. McCuen
- Periodic Transfer Function-Noise Model for Forecasting. M. Shahjahan Mondal and Saleh A. Wasimi

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- Calibration and Validation of Soil and Water Assessment Tool on an Agricultural Watershed in Upstate New York. Jennifer Benaman, Christine A. Shoemaker, and Douglas A. Haith
- Incorporation of Climate Change in Water Availability Modeling. Ralph A. Wurbs, Ranjan S. Muttiah, and Fabrice Felden
- Remediation System Design with Multiple Uncertain Parameters Using Fuzzy Sets and Genetic Algorithm. Jiabao Guan and Mustafa M. Aral
- Synthetic Generation of Hydrologic Time Series Based on Nonparametric Random Generation. Tae-Woong Kim and Juan B. Valdés
- Modified Temperature Index Method Using Near-Surface Soil and Air Temperatures for Modeling Snowmelt in the Canadian Prairies. Purushottam Raj Singh, Thian Yew Gan, and Adam Kenea Gobena
- A Dirac- $\delta$  Function Notation for Source/Sink Terms in Groundwater Flow. Orhan Gunduz and Mustafa M. Aral

### **Volumen 10, Número 6, Noviembre-Diciembre 2005**

- Regional Rainfall Frequency Analysis for the State of Michigan. Christopher M. Trefry, David W. Watkins, Jr., and Dennis Johnson
- Short Duration Rainfall Frequency Analysis in Michigan Using Scale-Invariance Assumptions. Laura A. Gerold and David W. Watkins, Jr.
- Hybrid Model for Derivation of Synthetic Unit Hydrograph. P. K. Bhunya, N. C. Ghosh, S. K. Mishra, C. S. P. Ojha, and Ronny Berndtsson
- Analyses of Flow Mechanism Based on Master Recession Curves. Kazumasa Mizumura
- Flow to Vertical and Nonvertical Wells in Leaky Aquifers. Bruce Hunt
- Comparison of Several Flood Forecasting Models in Yangtze River. K. W. Chau, C. L. Wu, and Y. S. Li
- Saturated-Unsaturated 3D Groundwater Model. I: Development. Ahmet Dogan and Louis H. Motz
- Saturated-Unsaturated 3D Groundwater Model. II: Verification and Application. Ahmet Dogan and Louis H. Motz

### **Volumen 11, Número 1, Enero-Febrero 2006**

- Comparative Analysis of Data-Driven and GIS-Based Conceptual Rainfall-Runoff Model. A. W. Jayawardena, N. Muttill, and J. H. W. Lee
- Watershed Surface and Subsurface Spatial Intraflows Model. Thomas E. Croley, II and Chansheng He
- Determination of Sustainable Yield in Urban Groundwater Systems: Beijing, China. Lei Zhang and Christopher Kennedy
- Stochastic Point Rainfall Modeling for Correlated Rain Cell Intensity and Duration. Sangdan Kim and M. Levent Kavvas
- From a NEXRAD Rainfall Map to a Flood Inundation Map. Timothy L. Whiteaker, Oscar Robayo, David R. Maidment, and Dan Obenour
- Peak Discharge Estimation Using Analytical Probabilistic and Design Storm Approaches. Asif Quader and Yiping Guo
- Methods for Developing Naturalized Monthly Flows at Gaged and Ungaged Sites. Ralph A. Wurbs

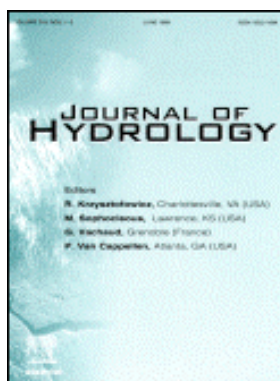
- Artificial Neural Network Models of Daily Pan Evaporation. M. Erol Keskin and Özlem Terzi
- Runoff and Sediment Yield Modeling Using Artificial Neural Networks: Upper Siwane River, India. N. S. Raghuvanshi, R. Singh, and L. S. Reddy
- Generalized Fick's Law and Fractional ADE for Pollution Transport in a River: Detailed Derivation. Sangdan Kim and M. Levent Kavvas

### Volumen 11, Número 2, Marzo-Abril 2006

- Gridded Snowmelt and Rainfall-Runoff CWMS Hydrologic Modeling of the Red River of the North Basin. Henry H. Hu, Leo R. Kreymborg, Brian J. Doeing, Kurtis S. Baron, and Scott A. Jutila
- Identification of Groundwater Pollution Sources Using GA-based Linked Simulation Optimization Model. Raj Mohan Singh and Bithin Datta
- Flood Frequency Analysis for Sicily, Italy. Vito Ferro and Paolo Porto
- Estimating Infiltration in the Upper Split Wash Watershed, Yucca Mountain, Nevada
- David A. Woolhiser, Randall W. Fedors, Roger E. Smith, and Stuart A. Stothoff
- Nonparametric Approach for Bivariate Drought Characterization Using Palmer Drought Index. Tae-Woong Kim, Juan B. Valdés, and Chulsang Yoo
- Analyses of Drought Flow in Recession Period. Kazumasa Mizumura, Mitsuhiro Mizushima, and Daisuke Kiyohara
- Bivariate Flood Frequency Analysis Using the Copula Method. L. Zhang and V. P. Singh
- Reservoir Storage Curve Estimation Based on Remote Sensing Data. Dingzhi Peng, Shenglian Guo, Pan Liu, and Ting Liu
- Kinematic Wave Parameters for Trapezoidal and Rectangular Channels. Tommy S. W. Wong and M. C. Zhou
- Physical Analog of the Linear Reservoir. Patrick J. Purcell
- Artificial Neural Network Modeling of Dissolved Oxygen in a Wetland Pond: The Case of Hovi, Finland. Bernhard H. Schmid and Jari Koskiaho

### Journal of Hydrology

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### Volumen 311, Números 1-4, Septiembre 2005

- Continuous monitoring of water loading of trees and canopy rainfall interception using the strain gauge method. Y.S. Huang, S.S. Chen and T.P. Lin
- Estimation of relative recharge sequence to groundwater with minimum entropy deconvolution. Taehee Kim and Kang-Keun Lee
- Multi-criteria optimization of a regional spatially-distributed subsurface water flow model. G. Schoups, J.W. Hopmans, C.A. Young, J.A. Vrugt and W.W. Wallender
- Calibration of an impedance probe for estimation of surface soil water content over large regions. Michael H. Cosh, Thomas J. Jackson, Rajat Bindlish, James S. Famiglietti and Dongryeol Ryu
- Modeling stream–aquifer interactions with linear response functions. Mohamed M. Hantush
- Characterizing spatial and temporal variations in CO<sub>2</sub> fluxes from ground surface using three complimentary measurement techniques. L.K. Kabwe, R.E. Farrell, S.K. Carey, M.J. Hendry and G.W. Wilson
- Incorporating subsurface-flow mechanism into geomorphology-based IUH modelling. Kwan Tun Lee and Chin-Hsin Chang
- Application of spectral analysis of daily water level and spring discharge hydrographs data for comparing physical characteristics of karstic aquifers. M. Rahnemaei, M. Zare, A.R. Nematollahi and H. Sedghi
- The role of lateral pipe flow in hillslope runoff response: an intercomparison of non-linear hillslope response. Taro Uchida, Ilja Tromp-van Meerveld and Jeffrey J. McDonnell
- Experimental study of turbulent unconfined groundwater flow in a single fracture. Jiazhong Qian, Hongbin Zhan, Weidong Zhao and Fenggen Sun
- Spatial variability of surface roughness and hydraulic conductivity after disk tillage: implications for runoff variability. J.A Gómez, K. Vanderlinden and M.A. Nearing
- Temperature as a marker for karstic waters hydrodynamics. Inferences from 1 year recording at La Peyrère cave (Ariège, France). Pierre Genthon, Arnaud Bataille, André Fromant, Dominique D'Hulst and Francois Bourges
- Rainfall erosivity and variability in the Northern Ethiopian Highlands. J. Nyssen, H. Vandenreyken, J. Poesen, J. Moeyersons, J. Deckers, Mitiku Haile, C. Salles and G. Govers
- Objective segmentation in compound rating curves. Asgeir Petersen-Øverleir and Trond Reitan
- Studying the spatial structure evolution of soil water content using multivariate geostatistics. G. Buttafuoco, A. Castrignanò, E. Busoni and A.C. Dimase
- Flow routing with unknown rating curves using a state-space reservoir-cascade-type formulation. Jozsef Szilagyi, Gabor Balint, Balazs Gauzer and Peter Bartha
- Temporal changes in hydraulic conductivity of sand porous media biofilters during wastewater infiltration due to biomat formation. Deborah N.H. Beach, John E. McCray, Kathryn S. Lowe and Robert L. Siegrist
- High concentration suspended sediment measurements using a continuous fiber optic in-stream transmissometer. Chris G. Campbell, Danny T. Laycak, William Hoppes, Nguyen T. Tran and Frank G. Shi
- A mass-conservative switching method for simulating saturated–unsaturated flow. Xinmei Hao, Renduo Zhang and Alexandra Kravchenko
- Effects of suburban development on runoff generation in the Croton River basin, New York, USA. Douglas Burns, Tomas Vitvar, Jeffrey McDonnell, James Hassett, Jonathan Duncan and Carol Kendall

- Reactive transport modeling of calcite dissolution in the fresh-salt water mixing zone. Mohsen Rezaei, Esteban Sanz, Ezat Raeisi, Carlos Ayora, Enric Vázquez-Suñé and Jesús Carrera
- Regression-based downscaling of spatial variability for hydrologic applications. G. Bürger and Y. Chen

### Volumen 312, Números 1-4, Octubre 2005

- Constraining water sources and hydrologic processes from the isotopic analysis of water and dissolved strontium, Lake Junin, Peru. Mark A. Flusche, Geoffrey Seltzer, Donald Rodbell, Donald Siegel and Scott Samson
- Studies on distribution and fractionation of heavy metals in Gomti river sediments—a tributary of the Ganges, India. Kunwar P. Singh, Dinesh Mohan, Vinod K. Singh and Amrita Malik
- Mean soil moisture estimation using temporal stability analysis. J. Martínez-Fernández and A. Ceballos
- Semi-analytical homogeneous anisotropic capture zone delineation. Michael N. Fienen, Jian Luo and Peter K. Kitanidis
- Groundwater flow along and across structural folding: an example from the Judean Desert, Israel. Leehee Laronne Ben-Itzhak and Haim Gvirtzman
- Influence of pebble size and cover on rainfall interception by gravel mulch. Xiao-Yan Li, Pei-Jun Shi, Lian-You Liu, Shang-Yu Gao, Xiong-Shi Wang and Liu-San Cheng
- Prediction boundaries and forecasting of non linear hydrologic stage data. Joseph Park, Jayantha Obeysekera and Randy VanZee
- Measurements and modeling of throughfall variability for five forest communities in the southeastern US. Malcolm L. Bryant, Shirish Bhat and Jennifer M. Jacobs
- Estimating spatial distributions of hydraulic parameters for a two-scale structured heterogeneous lignitic mine soil. Uwe Buczko and Horst H. Gerke
- Selection of conceptual models for regionalisation of the rainfall-runoff relationship. Hyosang Lee, Neil McIntyre, Howard Wheeler and Andy Young
- Coupled inverse modeling of vadose zone water, heat, and solute transport: calibration constraints, parameter nonuniqueness, and predictive uncertainty. Michael J. Friedel
- Simulating riparian evapotranspiration: a new methodology and application for groundwater models. Kathryn J. Baird and Thomas Maddock III
- Improved weighting methods, deterministic and stochastic data-driven models for estimation of missing precipitation records. Ramesh S.V. Teegavarapu and V. Chandramouli
- Impact of DEM mesh size and soil map scale on SWAT runoff, sediment, and  $\text{NO}_3\text{-N}$  loads predictions. V. Chaplot
- Effect of the accuracy of spatial rainfall information on the modeling of water, sediment, and  $\text{NO}_3\text{-N}$  loads at the watershed level. V. Chaplot, A. Saleh and D.B. Jaynes
- Multi-site downscaling of heavy daily precipitation occurrence and amounts. Colin Harpham and Robert L. Wilby
- A numerical modeling study on desert oasis self-supporting mechanisms. Peter C. Chu, Shihua Lu and Yuchun Chen
- Development and application of a soil classification-based conceptual catchment-scale hydrological model. D. Maréchal and I.P. Holman

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- Remote sensing of snow thaw at the pan-Arctic scale using the SeaWinds scatterometer. Michael A. Rawlins, Kyle C. McDonald, Steve Frolking, Richard B. Lammers, Mark Fahnestock, John S. Kimball and Charles J. Vörösmarty
- Flow system dynamics and water storage of a fissured-porous karst aquifer characterized by artificial and environmental tracers. F. Einsiedl

**Volumen 313, Números 1-2, Noviembre 2005:** Palaeofloods, historical data & climate variability: Applications in flood risk assessment, 8 Artículos

### **Volumen 313, Números 3-4, Noviembre 2005**

- Influence of surface roughness in hydrological response of semiarid catchments. A. Candela, L.V. Noto and G. Aronica
- The geochemistry and isotope hydrology of the Southern Mexicali Valley in the area of the Cerro Prieto, Baja California (Mexico) geothermal field. Enrique Portugal, Georgina Izquierdo, Alfred Truesdell and Julio Álvarez
- Two-phase flow of water and air during aerated subsurface drip irrigation. Ninghu Su and David J. Midmore
- Modeling of stream-aquifer interaction: the embedded multireservoir model. Manuel A. Pulido-Velazquez, Andres Sahuquillo-Herraiz, J. Camilo Ochoa-Rivera and David Pulido-Velazquez
- Regional hydrochemical study on salinization of coastal aquifers, western coastal area of South Korea. Seh-Chang Park, Seong-Taek Yun, Gi-Tak Chae, In-Sik Yoo, Kwang-Sub Shin, Chul-Ho Heo and Sang-Kyu Lee
- Determination of ponding condition and infiltration into layered soils under unsteady rainfall. Xuefeng Chu and Miguel A. Mariño
- An observational study of the factors that influence interception loss in boreal and temperate forests. T. Toba and T. Ohta
- Simulated sediment flux during 1998 big-flood of the Yangtze (Changjiang) River, China. Kaiqin Xu, Zhongyuan Chen, Yiwen Zhao, Zhanghua Wang, Jiqun Zhang, Seiji Hayashi, Shogo Murakami and Masataka Watanabe
- Land use and land cover influence on water quality in the last free-flowing river draining the western Sierra Nevada, California. Dylan S. Ahearn, Richard W. Sheibley, Randy A. Dahlgren, Michael Anderson, Joshua Johnson and Kenneth W. Tate
- Comparison of the lognormal and beta distribution functions to describe the uncertainty in permeability. Karen L. Ricciardi, George F. Pinder and Kenneth Belitz
- Single-porosity and dual-porosity modeling of water flow and solute transport in subsurface-drained fields using effective field-scale parameters. Nathan W. Haws, P. Suresh C. Rao, Jirka Simunek and Irene C. Poyer
- Deseasonalisation of hydrological time series through the normal quantile transform. Alberto Montanari

### **Volumen 314, Números 1-4, Noviembre 2005**

- Repeated surveys by acoustic Doppler current profiler for flow and sediment dynamics in a tidal river. R.L. Dinehart and J.R. Burau

- Hydrochemical assessment of the Rochefort marsh: Role of surface and groundwater in the hydrological functioning of the wetland. Bernard Ladouche and Philippe Weng
- Regional flow duration curve estimation in small ungauged catchments using instantaneous flow measurements and a censored data approach. Ioannis A. Niadas
- A three-dimensional analytical model to simulate groundwater flow during operation of recirculating wells. Junqi Huang and Mark N. Goltz
- A flexible modeling package for topographically based watershed hydrology. Jun Wang, Theodore A. Endreny and James M. Hassett
- Applying fuzzy theory and genetic algorithm to interpolate precipitation. C.L. Chang, S.L. Lo and S.L. Yu
- High resolution distributed atmospheric-hydrological modelling for Alpine catchments. Harald Kunstmann and Christiane Stadler
- Managing releases from small upland reservoirs for downstream recharge in semi-arid basins (Northeast of Tunisia). Mounira Zammouri and Haifa Feki
- Identifiability of distributed floodplain roughness values in flood extent estimation. M.G.F. Werner, N.M. Hunter and P.D. Bates
- Calibration and validation of neural networks to ensure physically plausible hydrological modelling. Greer B. Kingston, Holger R. Maier and Martin F. Lambert
- Seasonal and spatial patterns of erosivity in a tropical watershed of the Colombian Andes. Natalia Hoyos, Peter R. Waylen and Álvaro Jaramillo
- An investigation of flows and losses within the alluvial sands of ephemeral rivers in Zimbabwe. M.G. Mansell and S.W. Hussey
- Simulation of integrated surface-water/ground-water flow and salinity for a coastal wetland and adjacent estuary. Christian Langevin, Eric Swain and Melinda Wolfert
- A time domain transmission sensor with TDR performance characteristics. J.M. Blonquist Jr., S.B. Jones and D.A. Robinson
- Interaction of groundwater and shallow lakes on outwash sediments in the sub-humid Boreal Plains of Canada. B.D. Smerdon, K.J. Devito and C.A. Mendoza
- Temporal persistence of spatial patterns in throughfall. R.F. Keim, A.E. Skaugset and M. Weiler
- Recent advances in wavelet analyses: Part 1. A review of concepts. David Labat
- Recent advances in wavelet analyses: Part 2—Amazon, Parana, Orinoco and Congo discharges time scale variability. David Labat, Josyane Ronchail and Jean Loup Guyot
- Streamflow trends in Switzerland. Marius-Victor Birsan, Peter Molnar, Paolo Burlando and Martin Pfaundler

### **Volumen 315, Números 1-4, Diciembre 2005**

- Simulating the fate of water in field soil–crop environment. M.R. Cameira, R.M. Fernando, L. Ahuja and L. Pereira
- Analytical solution for solute transport resulting from instantaneous injection in streams with transient storage. F. De Smedt, W. Brevis and P. Debels
- Stratigraphic controls on pool formation in a domed bog inferred from ground penetrating radar (GPR). Xavier Comas, Lee Slater and Andrew Reeve
- A field scale study of pumping-induced drainage and recovery in an unconfined aquifer. Michael J. Bevan, Anthony L. Endres, David L. Rudolph and Gary Parkin
- Sensitivity analysis of a catchment-scale nitrogen model. N. McIntyre, B. Jackson, A.J. Wade, D. Butterfield and H.S. Wheater

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- A field study of hydraulic, geochemical and stable isotope relationships in a coastal wetlands system. S. Marimuthu, D.A. Reynolds and C. Le Gal La Salle
- A simple algorithm to estimate evapotranspiration from DAIS data: Application to the DAISEX campaigns. J.A. Sobrino, M. Gomez, J.C. Jimenez-Munoz, A. Oliso and G. Chehbouni
- Spatially distributed energy balance snowmelt modelling in a mountainous river basin: estimation of meteorological inputs and verification of model results. David C. Garen and Danny Marks
- Change of interception process due to the succession from Japanese red pine to evergreen oak. Shin'ichi Iida, Tadashi Tanaka and Michiaki Sugita
- Estimating cell-to-cell land surface drainage paths from digital channel networks, with an application to the Amazon basin. Emilio Mayorga, Miles G. Logsdon, Maria Victoria R. Ballester and Jeffrey E. Richey
- Uncertainty of simulated catchment runoff response in the presence of threshold processes: Role of initial soil moisture and precipitation. Erwin Zehe, Rolf Becker, András Bárdossy and Erich Plate
- Considerations for the use of radar-derived precipitation estimates in determining return intervals for extreme areal precipitation amounts. Robert J. Allen and Arthur T. DeGaetano
- Transport rate-based model for overland flow and solute transport: Parameter estimation and process simulation. Zhi-Qiang Deng, João L.M.P. de Lima and Vijay P. Singh
- An artificial neural network model for generating hydrograph from hydro-meteorological parameters. Sajjad Ahmad and Slobodan P. Simonovic
- Numerical simulation of the wind-driven rainfall distribution over small-scale topography in space and time. Bert Blocken, Jan Carmeliet and Jean Poesen
- Energy dynamics and modeled evapotranspiration from a wet tropical forest in Costa Rica. H.W. Loescher, H.L. Gholz, J.M. Jacobs and S.F. Oberbauer
- Visualization of storm severity. Maria Helena Ramos, Jean-Dominique Creutin and Etienne Leblois
- Recharge velocity and geochemical evolution for the Permo-Triassic Sherwood Sandstone, Northern Ireland. A.A. Cronin, J.A.C. Barth, T. Elliot and R.M. Kalin

### **Volumen 316, Números 1-4, Enero 2006**

- Hydrology of a zero-order Southern Piedmont watershed through 45 years of changing agricultural land use. Part 1. Monthly and seasonal rainfall-runoff relationships. Dinku M. Endale, Dwight S. Fisher and Jean L. Steiner
- A linearized approach to flow resistance uncertainty in a 2-D finite volume model of flood flow. M.S. Horritt
- Probabilistic approach to modeling of velocity distributions in fluid flows. Chao-Lin Chiu and Shih-Meng Hsu
- Negative correlation between porosity and hydraulic conductivity in sand-and-gravel aquifers at Cape Cod, Massachusetts, USA. Roger H. Morin
- Hydroclimatology of the North American Monsoon region in northwest Mexico. David J. Gochis, Luis Brito-Castillo and W. James Shuttleworth
- Estimating recharge using relations between precipitation and yield in a mountainous area with large variability in precipitation. Janet Marie Carter and Daniel G. Driscoll

- A quantitative structure–activity relationships (QSAR) analysis of triarylmethane dye tracers. Jarai Mon, Markus Flury and James B. Harsh
- A geometrical model of bound water permittivity based on weighted averages: the allophane analogue C.M. Regalado
- The hydrology of Piermont Marsh, a reference for tidal marsh restoration in the Hudson river estuary, New York. Franco A. Montalto, Tammo S. Steenhuis and J.-Yves Parlange
- Using genetic algorithm and TOPSIS for Xinanjiang model calibration with a single procedure. Chun-Tian Cheng, Ming-Yan Zhao, K.W. Chau and Xin-Yu Wu
- Using numerical modelling to evaluate the capillary fringe groundwater ridging hypothesis of streamflow generation. H.L. Cloke, M.G. Anderson, J.J. McDonnell and J.-P. Renaud
- Coupled flow and salinity transport modelling in semi-arid environments: The Shashe River Valley, Botswana. Peter Bauer, Rudolf J. Held, Stephanie Zimmermann, Flenner Linn and Wolfgang Kinzelbach
- A semi-analytical model of expected areal-average infiltration under spatial heterogeneity of rainfall and soil saturated hydraulic conductivity. Rao S. Govindaraju, Corrado Corradini and Renato Morbidelli
- Nitrate leaching through the unsaturated zone following pig slurry applications. Paolo Mantovi, Letizia Fumagalli, Giovanni Pietro Beretta and Marina Guermandi
- Factors controlling sediment yield in a major South American drainage basin: the Magdalena River, Colombia. Juan D. Restrepo, Björn Kjerfve, Michel Hermelin and Juan C. Restrepo
- Water balance of Lake Tana and its sensitivity to fluctuations in rainfall, Blue Nile basin, Ethiopia. S. Kebede, Y. Travi, T. Alemayehu and V. Marc
- Role of fractures in weathering of solid rocks: narrowing the gap between laboratory and field weathering rates. Fernando A.L. Pacheco and Ana M.P. Alenção
- Enhancing gradient-based parameter estimation with an evolutionary approach. Eugene Agyei and Kirk Hatfield
- An improved neural network approach to the determination of aquifer parameters. Gwo-Fong Lin and Guo-Rong Chen
- Hydrogeochemical and lake level changes in the Ethiopian Rift. Tamiru Alemayehu, Tenalem Ayenew and Seifu Kebede
- The applicability of earth resistivity methods for saline interface definition. S.R. Wilson, M. Ingham and J.A. McConchie

#### **Volumen 317, Números 1-2, Febrero 2006**

- Reducing concentration uncertainty using the coupled Markov chain approach. Amro M.M. Elfeki
- Effects of Kilickaya Dam on concentration and load values of water quality constituents in Kelkit Stream in Turkey. Ahmet Kurunc, Kadri Yurekli and Cengiz Okman
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- A semi-analytical model for transient flow to a subsurface tile drain. Jennifer S. Stillman, Nathan W. Haws, R.S. Govindaraju and P. Suresh C. Rao

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- Performance of grass filters used for stormwater treatment—a field and modelling study. Ana Deletic and Tim D. Fletcher
- Erosion risk assessment of controlled burning of grasses established on steep slopes. Yeboah Gyasi-Agyei
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- A simulation model for predicting hourly pan evaporation from meteorological data. J.M. Molina Martínez, V. Martínez Alvarez, M.M. González-Real and A. Baille
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- Inverse approaches with lithologic information for a regional groundwater system in southwest Kansas. Ming-Shu Tsou, Samuel P. Perkins, Xiaoyong Zhan, Donald O. Whittemore and Li Zheng
- Site-focused nonparametric test of regional homogeneity based on flood regime. Juraj M. Cunderlik and Donald H. Burn
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- Simulated gravitational response to hydraulic testing of unconfined aquifers. Brian N. Damiata and Tien-Chang Lee
- Ionic and isotopic ratios for identification of salinity sources and missing data in the Gaza aquifer. Said M.S. Ghabayen, Mac McKee and Mariush Kembrowski
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- Evidence for intensification of the global water cycle: Review and synthesis. Thomas G. Huntington
- Effective scaling factor for transient infiltration in heterogeneous soils. Jianting Zhu and Binayak P. Mohanty
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- Numerical modelling of cohesive sediments transport in the Ria de Aveiro lagoon, Portugal. José Fortes Lopes, João Miguel Dias and Ivan Dekeyser
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- Strong field evidence of directional permeability scale effect in fractured rock. Walter A. Illman
- A rainfall loading response recorded at 300 meters depth: Implications for geological weighing lysimeters. Marios Sophocleous, Earl Bardsley and John Healey
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- Errors of flux integration methods for solutes in grab samples of runoff water, as compared to flow-proportional sampling. Patrick Schleppe, Peter A. Waldner and Manfred Stähli
- Trends and variability in the hydrological regime of the Mackenzie River Basin. Omar I. Abdul Aziz and Donald H. Burn

- Effects of differing wildfire severities on soil wettability and implications for hydrological response. S.H. Doerr, R.A. Shakesby, W.H. Blake, C.J. Chafer, G.S. Humphreys and P.J. Wallbrink
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- Effects of land cover on water table, soil moisture, evapotranspiration, and groundwater recharge: A Field observation and analysis. Y.-K. Zhang and K.E. Schilling
- Testing nutrient flushing hypotheses at the hillslope scale: A virtual experiment approach. Markus Weiler and Jeffrey J. McDonnell
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- Leaf and stem maximum water storage capacity of herbaceous plants in a mountain meadow. Georg Wohlfahrt, Karin Bianchi and Alexander Cernusca
- Flood estimation at ungauged sites using artificial neural networks. C.W. Dawson, R.J. Abrahart, A.Y. Shamseldin and R.L. Wilby
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**Volumen 320, Números 1-2, Marzo 2006:** The model parameter estimation experiment – MOPEX, Sapporo, Japan: 15 Articulos

**Journal of Irrigation and Drainage Engineering (ASCE)**

<http://www.pubs.asce.org/journals/ir.html>



**Volumen 131, Número 5, Septiembre-Octubre 2005**

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- Coupled Surface–Subsurface Solute Transport Model for Irrigation Borders and Basins. II. Model Evaluation. D. Zerihun, C. A. Sanchez, A. Furman, and A. W. Warrick
- Analytical Expressions for Hydraulic Calculation of Trapezoidal Drip Irrigation Units. Luis Juana, Leonor Rodríguez-Sinobas, Raúl Sánchez, and Alberto Losada
- Stream Multiaquifer Well Interactions. Govinda C. Mishra and Mohd Fahimuddin

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- Development and Application of an Integrated Optimization-Simulation Model for Major Irrigation Projects. A. Mishra, R. Singh, and N. S. Raghuwanshi
- Multicriteria Analysis in an Irrigation District in Mexico. Raquel Salazar, Jeffry Stone, Diana Yakowitz, and Donald Slack
- Simplified Procedure to Evaluate Head Losses in Drip Irrigation Laterals. Giuseppe Provenzano, Domenico Pumo, and Pietro Di Dio
- Methodology for Estimating Specific Yield in Shallow Water Environment Using Continuous Soil Moisture Data. Ahmed Said, Mahmood Nachabe, Mark Ross, and Jeff Vomacka
- Rate and Volume of Stream Flow Depletion due to Unsteady Pumping. Sushil K. Singh
- Optimal Design of Parabolic Canal Section. Bhagu R. Chahar
- Measuring On-Farm Irrigation Efficiency with Chloride Tracing under Deficit Irrigation. Zohrab Samani, Ted Sammis, Rhonda Skaggs, N. Alkhatiri, and Jose Deras
- Design of Hydraulically Efficient Power-Law Channels with Freeboard. Arif A. Anwar and Derek Clarke

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- Estimation of Evapotranspiration of Different-Sized Navel-Orange Tree Orchards Using Energy Balance. Simona Consoli, Neil O'Connell, and Richard Snyder
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- Evaluating Regional Solutions to Salinization and Waterlogging in an Irrigated River Valley. J. Philip Burkhalter and Timothy K. Gates
- Total Friction Loss along Multiple Outlets Pipes with Open End. Reynaldo R. Chinae and Antonio Dominguez
- Investigation of the Influence of Sprinkler Fins and Dissolved Air on Jet Flow. M. Pascal, N. Kadem, and A. Tchiftchibachian
- Combination Subsurface Irrigation and Drainage Systems in North-Central South Dakota. Darrell W. DeBoer and Dwayne L. Beck

- Grass Swale-Perforated Pipe Systems for Stormwater Management. H. Abida and J. F. Sabourin
- Fuzzy Analysis of Slope-Area Discharge Estimates. Richard H. McCuen and Zachary Knight
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- Simplified Kernel Method for Flow to Large Diameter Wells. Sushil K. Singh

**Volumen 132, Número 2, Marzo-Abril 2006**

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- Modeling Uncertainty in an Object-Oriented Reservoir Operations Model. John C. Carron, Edith A. Zagona, and Terrance J. Fulp
- Stochastic Streamflow Simulation Using SAMS-2003. J. D. Salas, O. G. Sveinsson, W. L. Lane, and D. K. Frevert
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- Optimal Reservoir Operations for Irrigation Using a Three Spatial Scales Approach. Francesco Mannocchi and Francesca Todisco
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- Effect of Controlled Drainage and Vegetative Buffers on Drainage Water Quality from Wastewater Irrigated Fields. Z. Jia, R. O. Evans, and J. T. Smith
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**Journal of River Basin Management**

<http://www.jrbm.net/pages/>



### Volumen 3, Número 2

- **Dynamic SlowDown: a flood mitigation strategy complying with the integrated management concept – implementation in a small mountainous catchment.** Poulard Christine, Szczesny Jerzy, Witkowska Hanna and Radzicki Krzysztof
- **Historical analyses: a foundation for developing and evaluating river-type specific restoration programs.** Severin Hohensinner, Mathias Jungwirth, Susanne Muhar and Helmut Habersack
- **Flood risk management in Europe – the development of a common EU policy.** Dipl. Ing. Thomas Dworak and Benjamin Görlach
- **A framework for integrating flood defence and biodiversity in washlands in England.** J. Morris, T.M. Hess, D.J.G. Gowing, P.B. Leeds-Harrison, N. Bannister, R.M.N. Vivash and M. Wade
- **Hydrological and hydraulics modelling to assess mitigation effectiveness of floodplain reconnection in the context of a mountain river.** Nicolas Kreis, Thierry Leviandier and Patrick Arnaud
- **Natural flood reduction strategies – a challenge.** Zbigniew W. Kundzewicz and Lucas Menzel
- **Managing riverine environments in the context of new water policy in Europe.** Edward Maltby and Martin S.A. Blackwell

### Volumen 3, Número 3

- Sustainable management of rivers in Malaysia: Involving all stakeholders.** Chan Ngai Weng
- An innovative flood forecasting system for the Demer basin: A case study.** Emma Tate and Kris Cauwenberghs
- Environmental modelling in river basin management.** Roger Falconer, Binliang Lin and Richard Harpin
- What will it take to bring our rivers back to life?** Ahmad Fuad B. Embi
- Stream restoration and environmental river mechanics.** Pierre Julien, Gigi Richard and Jason Albert
- Impacts of hydraulics and sediment transport in river training works and flood control schemes (Case study: Shahroud river).** Sajad Ahmad Hamidi and Firouz Bahadori Khosrowshahy
- Storm water treatment using Bio-Ecological Drainage System.** Khairul Rahmah Ayub, Lariyah Mohd Sidek, Anita Ainan, Nor Azazi Zakaria, Aminuddin Ab. Ghani and Rozi Abdullah
- The importance of sullage (grey-water) treatment in the restoration and conservation of urban streams.** Azni Idris, Wan Nor Wan Azmin, Mohd. Amin Mohd. Soom and Abdullah-Al-Mamun
- Effects of urbanization on runoff water quantity and quality: Experiences from test catchments in Southern Finland.** Nora Metsäranta, Jyrki Kotola and Jyrki Nurminen

### Volumen 3, Número 4

- **Impacts of the TGP project on the Yangtze River ecology and management strategies.** Zhao-Yin Wang, Joseph H.W. Lee and Dongsheng Cheng

- **Basin influence on natural variability of rivers in semi-arid environments.** Domingo Baeza Sanz, Diego García Del Jalón, Barbara Gutiérrez Teira and Pilar Vizcaíno Martínez
- **Assessing the hydrological effects of Landuse changes using distributed hydrological modelling and GIS.** Seifu Gebremeskel, Yong B. Liu, F. de Smedt, Lucien Hoffmann and Laurent Pfister
- **Numerical modeling of algae in the Patuxent Estuary.** Sen Bai and Wu-Seng Lung
- **Morphological numerical simulation of flood situations in the Danube River.** Bui Minh Duc, Hans Helmut Bernhart and Horst Kleemeier

### Journal of Water Resources Planning and Management (ASCE)

<http://www.pubs.asce.org/journals/wr.html>



### Volumen 131, Número 5, Septiembre-October 2005

- **Intensive Groundwater Use: Silent Revolution and Potential Source of Social Conflicts.** M. R. Llamas and P. Martínez-Santos
- **Daily Operation of Reservoir Subject to Yearly Probabilistic Constraints.** André Turgeon
- **Which Groundwater Remediation Objective is Better: A Realistic One or a Simple One?** Xiaolin Ren and Barbara Minsker
- **Urban Storm Water Control Evaluation with Analytical Probabilistic Models.** Jieyun Chen and Barry J. Adams
- **Least-Cost Design of Water Distribution Networks under Demand Uncertainty.** Artem Babayan, Zoran Kapelan, Dragan Savic, and Godfrey Walters
- **Characterizing the Severity and Risk of Drought in the Poudre River, Colorado.** Jose D. Salas, Chongjin Fu, Antonino Cancelliere, Dony Dustin, Dennis Bode, Andy Pineda, and Esther Vincent
- **Climate-Based Estimation of Hydrologic Inflow into Lake Okeechobee, Florida.** Fernando Miralles-Wilhelm, Paul J. Trimble, Guillermo Podestá, David Letson, and Kenneth Broad
- **Securing Water Distribution Systems Using Online Contamination Monitoring.** Avi Ostfeld and Elad Salomons

### Volumen 131, Número 6, Noviembre-Diciembre 2005

## REVISTAS DE INTERÉS

- Decision Support System for Reservoir Water Management Conflict Resolution. Veerakcuddy Rajasekaram and K. D. W. Nandalal
- Restoration of Pastureland Ecosystems: Case Study of Western Inner Mongolia. Heng Liu, Ximing Cai, Leihua Geng, and Huaping Zhong
- Optimization of Water Distribution and Water Quality by Hybrid Genetic Algorithm. Ming-Yen Tu, Frank T.-C. Tsai, and William W.-G. Yeh
- Optimal Location of Infiltration-Based Best Management Practices for Storm Water Management. Cristina Perez-Pedini, James F. Limbrunner, and Richard M. Vogel
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- Leakage Assessment through Water Distribution Network Simulation. Javier Almandoz, Enrique Cabrera, Francisco Arregui, Enrique Cabrera, Jr., and Ricardo Cobacho
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### **Volumen 132, Número 1, Enero-Febrero 2006-04-12**

- Runoff Quality Analysis of Urban Catchments with Analytical Probabilistic Models. Pradeep K. Behera, Barry J. Adams, and James Y. Li
- Estimating Transition Probabilities in Markov Chain-Based Deterioration Models for Management of Wastewater Systems. Hyeon-Shik Baik, Hyung Seok (David) Jeong, and Dulcy M. Abraham
- Derived Operating Rules for Allocating Recharges and Withdrawals among Unconnected Aquifers. David E. Rosenberg and Jay R. Lund
- Downstream Economic Benefits of Conservation Development. Douglas M. Johnston, John B. Braden, and Thomas H. Price
- Hydraulic Optimization of Transient Protection Devices Using GA and PSO Approaches. Bong Seog Jung and Bryan W. Karney
- Value of Instream Recreation in the Sonoran Desert. Matthew A. Weber and Robert P. Berrens

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- Stochastic Optimization of the Highland Lakes System in Texas. D. R. Kracman, D. C. McKinney, D. W. Watkins, Jr., and L. S. Lasdon
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- Multi-Objective Trade-Offs between Cost and Reliability in the Replacement of Water Mains. G. C. Dandy and M. O. Engelhardt
- Opportunity Costs of Residential Best Management Practices for Stormwater Runoff Control. Hale W. Thurston
- Use of Satellite Data for Streamflow and Reservoir Storage Forecasts in the Snake River Basin. Marketa McGuire, Andrew W. Wood, Alan F. Hamlet, and Dennis P. Lettenmaier
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**Journal of Water Supply: Research and Technology-AQUA**

<http://www.iwaponline.com/jws/toc.htm>



**Volumen 54 Número 5, Agosto 2005**

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- Calibration of Hazen-Williams coefficients in pipe networks using tracers. Abbas S. Al-Omari and Ahmad I. Jamrah
- Comparison of rapid methods to evaluate chlorine inactivation of the biological agent E. coli O157:H7. Audrey E. McDaniels, Larry J. Wymer and Rachel A. Talley
- A practical decision tree tool that water utilities can use to solve taste and odor problems. Michael J. McGuire, Ruth Hund and Gary Burlingame
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**Volumen 54, Número 6, Septiembre 2005**

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- Cost of reclaimed municipal wastewater for applications in seasonally stressed semi-arid regions. E. Gonzalez-Serrano, J. Rodriguez-Mirasol, T. Cordero, A. D. Koussis and J. J. Rodriguez
- Dead-end flushing of a distribution system: Short and long-term effects on water quality. Benoit Barbeau, Karine Julienne, Annie Carriere and Vincent Gauthier
- A case study of treatment performance and organic character. Christopher W. K. Chow, Rolando Fabris, Mary Drikas and Michael Holmes

## REVISTAS DE INTERÉS

- Strategy to mitigate As exposure from drinking water. M. Habibur Rahman and Abdullah Al-Muyeed

### **Volumen 54, Número 7, Noviembre 2005**

- Effect of O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub> molar concentration ratio at different pH values on cyclophosphamide degradation. Mayra Bataller Venta, Carlos Hernández Castro, Lidia Asela Fernández García, Adaris López Marzo, Eliet Véliz Lorenzo and Caridad Álvarez Álvarez
- Application of flow path algorithm in flow pattern mapping and loop data generation for a water distribution system. Ashok K. Sharma and Prabhata K. Swamee
- UV and UV/H<sub>2</sub>O<sub>2</sub> treatment of methylisoborneol (MIB) and geosmin in water. Erik J. Rosenfeldt, Karl G. Linden and Barbara Melcher
- An enhanced tanks-in-series model for interpretation of tracer tests. Alejandra Martín-Dominguez, Velitchko G. Tzatchkov, Ignacio R. Martín-Dominguez and Desmond F. Lawler
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### **Volumen 54, Número 8, Diciembre 2005**

- Physical and chemical fractionation of dissolved organic matter and trihalomethane precursors: A review. Alex T. Chow, Randy A. Dahlgren and Suduan Gao
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- Locating leaks from water supply pipes using the passive acoustic method. A. Lockwood, T. Murray, G. Stuart and L. Scudder
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### **Volumen 55, Número 1, Febrero 2006**

- Water as a Human Right. James K. Edzwald
- The global challenge for adequate and safe water. Menachem Elimelech
- Translation of pipe inspection results into condition ratings using the fuzzy synthetic evaluation technique. Balvant Rajani, Yehuda Kleiner and Rehan Sadiq
- Risk assessment and risk management of faecal contamination in drinking water distributed without a disinfectant residual. J. Hein M. van Lieverloo, Gertjan Medema and Dick van der Kooij
- Inactivation of *Bacillus globigii* by chlorination: A hierarchical Bayesian model. M. Sivaganesan, N. J. Adcock and E. W. Rice

- Comparison of DAX-8 and XAD-8 resins for isolating disinfection byproduct precursors. Alex T. Chow
- Investigations on reduction of colour from pulp and paper mill effluent by activated coconut jute carbon. Tony Sarvinder Singh

#### Volumen 55, Número 2, Marzo 2006

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- Control of MIB, Geosmin and TON by membrane systems. C. R. Reiss, C. Robert, C. Owen and J. S. Taylor
- The effect of biological pre-filtration on the performance of conventional surface water treatment. Gerald Heinicke, Torsten Hedberg, Frank Persson, Malte Hermansson and Wolfgang Uhl
- Selection of alum and polyaluminum coagulants: principles and applications. David J. Pernitsky and James K. Edzwald
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#### Journal of Waterway, Port, Coastal, and Ocean Engineering

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- Numerical Model for Wave-Induced Scour below a Submarine Pipeline. Dongfang Liang and Liang Cheng
- Reynolds Stresses and Velocity Distributions in a Wave-Current Coexisting Environment. Motohiko Umeyama
- Application and Validation of Three-Dimensional Model in a Shallow Lake. Kang-Ren Jin and Zhen-Gang Ji
- Godunov-Based Model for Nonhydrostatic Wave Dynamics. Scott F. Bradford
- Viscous Fluid in Tank under Coupled Surge, Heave, and Pitch Motions. Bang-Fuh Chen

#### Volumen 131, Número 6, Noviembre-Diciembre 2005

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- Reducing Harbor Siltation. I: Methodology. J. C. Winterwerp
- Reducing Harbor Siltation. II: Case Study of Parkhafen in Hamburg. C. Kuijper, H. Christiansen, J. M. Cornelisse, and J. C. Winterwerp
- Spatial Significant Wave Height Variation Assessment and Its Estimation. Abdüsselam Altunkaynak and Mehmet Özger
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- Tsunami Generation by Submarine Mass Failure. II: Predictive Equations and Case Studies. Philip Watts, Stéphan T. Grilli, David R. Tappin, and Gerard J. Fryer
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- Tidal Level Forecasting during Typhoon Surge Using Functional and Sequential Learning Neural Networks. S. Rajasekaran, T. L. Lee, and D.-S. Jeng

### **Volumen 132, Número 1, Enero-Febrero 2006**

- Distributions of Wave Steepness and Surf Parameter. M. Aziz Tayfun
- Experimental Analysis and Numerical Simulations of Waves and Current Flows Around Low-Crested Rubble-Mound Structures. Barbara Zanuttigh and Alberto Lamberti
- Solving Wave Dispersion Equation for Dissipative Media Using Homotopy Perturbation Technique. Hsien-Kuo Chang and Jin-Cheng Liou
- Cross-Shore Internal Waves in Zampa Coastal Region of Okinawa Island. Eizo Nakaza, S. M. B. Rahaman, Yasushi Kitamura, Geno Pawlak, and Seikoh Tsukayama
- Hydrodynamic Characterization and Modeling of the Arabian Gulf. Walid Elshorbagy, Mir Hammadul Azam, and Koichi Taguchi
- Generic Design of V-Shape and Vane-Type Breakwaters to Reduce Green Water Load Effects on Deck Structures and Containers of Ships: Case Study. Xuan P. Pham and Kamlesh S. Varyani
- Experimental Study on the Hydrodynamics of a Floating, Production, Storage, and Offloading System. T. Rajesh Kannah and R. Natarajan

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- Evaluating the Impact of Vessel-Traffic Interference on Container Terminal Capacity. Wing-Cheong Ng and Ching-Sze Wong
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- Response Amplitude and Hydrodynamic Force for a Buoy over a Convex. Bi-Jun Wu, Yong-Hong Zheng, and Ya-Ge You
- Scattering of Linear Water Waves by a Fixed and Infinitely Long Rectangular Structure Parallel to a Vertical Wall in Oblique Seas. Y. H. Zheng, Y. M. Shen, Y. G. You, B. J. Wu, and R. Liu
- Well-Balanced Finite-Volume Model for Long-Wave Runup. Yong Wei, Xian-Zhong Mao, and Kwok Fai Cheung
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- Alternative Computation of Dean's Overfill Ratio. Kevin R. Bodge

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- Measurement of exfiltration in urban sewer systems using NaCl as an artificial tracer. J. de Bénédittis, J.-L. Bertrand-Krajewski
- Spatial variability of PAH load of urban wet weather pollution in the Parisian combined sewer. Johnny Gaspéri Régis Moilleron, Ghassan Chebbo
- The direct numerical simulation of two-phase flows with interface capturing methods. Sanjoy Banerjee, Vittorio Badalassi, Vinay Dwivedi, Jean-Christophe Nave, David Hall
- Multiscale analysis of nuclear reactors thermal-hydraulics - the Neptune project. Dominique Bestion, Antoine Guelfi
- Use of CFD for applications in the oil and gas industry. Ludovic Raynal
- Taking into account water storage data in a lumped rainfall-runoff model: case study on the Seine basin. Lætitia Moulin, Charles Perrin, Claude Michel et Vazken Andréassian
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- Bars formation in a channelized river – Part 1 : theory. Philippe Ramez
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- Historical and contemporary presence of water on mars — from geochemical and planetological models to in situ observations: present state of knowledge. Michel Detay
- Methodology of using 3D modelling of storm overflows for self- monitoring. Gislain Lipeme Kouyi, José Vazquez, Jean-Bernard Poulet
- Sensitivity of stormwater quality models to experimental data used for calibration. M. Mourad, J.-L. Bertrand-Krajewski, G. Chebbo
- Simulation of the reactive transfers multi-components in infiltration seepage. A. Wanko, R. Mose, A. Sadowski
- Response of periphytic communities exposed to urban wet weather flow in artificial streams: effect of exposure duration. Charlotte Parent-Raoult, Laurence Volatier, Jean-Claude Boisson
- Volume-of-fluid method based numerical simulations of gas-liquid two-phase flows in confined geometries. Martin Wörner, Bradut E. Ghidersa, Milica Iliæ, Dan G. Cacuci
- Dynamic modeling of interfacial structures via interfacial area transport equation. Seungjin Kim, Mamoru Ishii
- Drag reduction via microbubble injection in boundary layer of channel flows. Yassin A. Hassan

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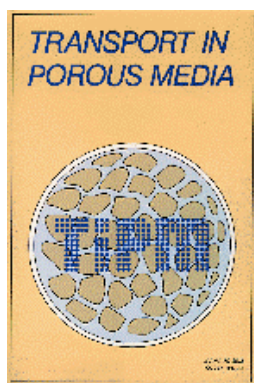
- Sub-grid scale modelling for the les of interfacial gas-liquid flows. Djamel Lakehal
- Physical validation issue of the Neptune two-phase modelling: validation plan to be adopted, experimental programs to be set up and associated instrumentation techniques developed. Pierre Péturaud, Eric Hervieu
- About field tests of equivalent hydraulic conductivity. G . Guyon

### Número 1, 2006

- Laminar forced convection of liquid flows through silicon microchannels. Gian Luca Morini , Lucien Baldas
- Microfluidics for genetic cancer diagnostics. David Newport, Mark Davies, Tara Dalton
- Isothermal gas flows in microchannels: physical parameter profiles and mass flow rates. J.Gilbert Méolans, Irina A. Graur, Pierre Perrier, David E. Zeitoun, Khalifa Aguir, Marc Bendahan
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- The Effects of Blowing and Suction on Double Diffusion by Mixed Convection over Inclined Permeable Surfaces. V. J. Bansod
- Modeling Floodplain Filtration for the Improvement of River Water Quality. Jong-Bae Chung, Seung-Hyun Kim, Byeong-Ryong Jeong, Young-Deuk Lee, Shiv O. Prasher
- A New Analytical Formulation for Interwell Finite-Step Tracer Injection Tests in Reservoirs. Manuel Coronado and Jetzabeth Ramírez-Sabag
- Inertia Effects in High-Rate Flow Through Heterogeneous Porous Media. M. Fourar, R. Lenormand, M. Karimi-Fard, R. Horne

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- Transport of Three-Phase Hyper-Saline Brines in Porous Media: Theory and Code Implementation. Warwick M. Kissling
- Radiative and Thermal Dispersion Effects on Non-Darcy Natural Convection with Lateral Mass Flux for Non-Newtonian Fluid from a Vertical Flat Plate in a Saturated Porous Medium. F. S. Ibrahim, M. A. Mansour, S. M. Abdel-Gaied
- Four-Component Gas/Oil Displacements in One Dimension: Part I: Global Triangular Structure. Thormod Johansen, Yun Wang, Franklin M. Orr, Birol Dindoruk
- Two-Phase Flow Properties Prediction from Small-Scale Data Using Pore-Network Modeling. C. Laroche and O. Vizika
- Role of pH in Electro-Osmosis: Experimental Study on NaCl–Water Saturated Kaolinite. Karim Beddiar, Teddy Fen-Chong, André Dupas, Yves Berthaud, Patrick Dangla
- Symmetry Solutions for Transient Solute Transport in Unsaturated Soils with Realistic Water Profile. R. J. Moitsheki, P. Broadbridge, M. P. Edwards

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- Linear Instability Analysis of a Suspension of Oxytactic Bacteria in Superimposed Fluid and Porous Layers. A. A. Avramenko and A. V. Kuznetsov
- Four-Component Gas/Oil Displacements in One Dimension: Part II: Analytical Solutions for Constant Equilibrium Ratios. Yun Wang, Birol Dindoruk, Thormod Johansen, Franklin M. Orr
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- Saltwater Upconing and Decay Beneath a Well Pumping Above an Interface Zone. Quanlin Zhou, Jacob Bear, Jacob Bensabat
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- Analysis of Nitrogen and Steam Injection in a Porous Medium with Water. J. Bruining and D. Marchesin
- Low-Frequency Asymptotic Analysis of Seismic Reflection from a Fluid-Saturated Medium. D. B. Silin, V. A. Korneev, G. M. Goloshubin, T. W. Patzek
- Detection and Quantification of Unswept Oil Pockets. E. A. Borisova and P. M. Adler
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 Editor: Dr John E Wooschlager, 6 Artículos

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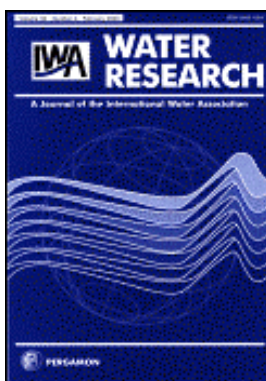
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- Context driven policy design in urban water management. A case study of Windhoek, Namibia. T. Sjömander Magnusson and B. van der Merwe
- Water safety plans for piped urban supplies in developing countries: a case study from Kampala, Uganda. Guy Howard, Sam Godfrey, Sarah Tibatemwa, Charles Niwagaba
- Characterisation of pollutants washed off from road surfaces during wet weather. F. A. Memon and D. Butler
- Effects of PVC, cast iron and concrete conduit on concentrations of copper in stormwater. Christopher Perkins, Farhad Nadim, W. Ray Arnold
- Consideration of metals levels in identifying CSO abatement options. K. N. Irvine, J. Caruso, G. McCorkhill

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- Mitigation of urban flooding: A simplified approach for distributed stormwater management practices selection and planning. Gabriele Freni and Elisa Oliveri
- User satisfaction in large-scale, urban dry sanitation programs in Mexico. Ana Cordova and Barbara A. Knuth
- Barriers and strategies for dry sanitation in large-scale and urban settings. Ana Cordova and Barbara A. Knuth
- Impacts of impervious surface on watershed hydrology: A review. W. D. Shuster, J. Bonta, H. Thurston, E. Warnemuende, D. R. Smith
- Measurement and three-dimensional simulation of flow in a rectangular detention tank. Åsa Adamsson, Lars Bergdahl, Sven Lyngfelt

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- Sedimentary microbial oxygen demand for laminar flow over a sediment bed of finite length. Makoto Higashino and Heinz G. Stefan
- Synergistic inactivation of *Cryptosporidium parvum* using ozone followed by monochloramine in two natural waters. Kaushik Biswas, Stephen Craik, Daniel W. Smith and Miodrag Belosevic
- Typology of diatom communities and the influence of hydro-ecoregions: A study on the French hydrosystem scale. J. Tison, Y.-S. Park, M. Coste, J.G. Wasson, L. Ector, F. Rimet and F. Delmas
- Efficiency of activated carbon to transform ozone into OH radicals: Influence of operational parameters. M. Sánchez-Polo, U. von Gunten and J. Rivera-Utrilla

- Removal of inorganic mercury from aqueous solutions by biomass of the marine macroalga *Cystoseira baccata*. Roberto Herrero, Pablo Lodeiro, Carlos Rey-Castro, Teresa Vilariño and Manuel E. Sastre de Vicente
- The toxic potential of an industrial effluent determined with the *Saccharomyces cerevisiae*-based assay. Marcel Schmitt, Georg Gellert and Hella Lichtenberg-Fraté
- Removal of bulk dissolved organic carbon (DOC) and trace organic compounds by bank filtration and artificial recharge. Steffen Grünheid, Gary Amy and Martin Jekel
- DNA microarray detection of nitrifying bacterial 16S rRNA in wastewater treatment plant samples. John J. Kelly, Slil Siripong, John McCormack, Lori R. Janus, Hidetoshi Urakawa, Said El Fantroussi, Peter A. Noble, Laura Sappelsa, Bruce E. Rittmann and David A. Stahl
- Effect of EDTA and Fe-EDTA complex concentration on TCF Kraft mill effluent degradability. Batch and continuous treatments. M.C. Diez, D. Pouleurs, R. Navia and G. Vidal
- Influence of chitosan characteristics on the coagulation and the flocculation of bentonite suspensions. Jean Roussy, Maurice Van Vooren, Brian A. Dempsey and Eric Guibal
- Nitrogen and phosphorus removal from plant nursery runoff in vegetated and unvegetated subsurface flow wetlands. D.O. Huett, S.G. Morris, G. Smith and N. Hunt
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- Adsorption of Pb and Cd by amine-modified zeolite. Ulla Wingenfelder, Bernd Nowack, Gerhard Furrer and Rainer Schulin
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- Prevalence of vaccine-derived polioviruses in sewage and river water in South Africa. D.N. Pavlov, W.B. Van Zyl, J. Van Heerden, W.O.K. Grabow and M.M. Ehlers
- Sustainable reduction in the flux of microbial compliance parameters from urban and arable land use to coastal bathing waters by a wetland ecosystem produced by a marine flood defence structure. David Kay, Mark D. Wyer, John Crowther, Jeremy Wilkinson, Carl Stapleton and Paul Glass
- Polyacrylamide added as a nitrogen source stimulates methanogenesis in consortia from various wastewaters. Melissa E. Haveroen, Michael D. MacKinnon and Phillip M. Fedorak
- Estimating the dual-enzyme kinetic parameters for Cr (VI) reduction by *Shewanella oneidensis* MR-1 from soil column experiments. Md. Akram Hossain, Mahbub Alam and David R. Yonge
- Impacts of viability and purification on the specific gravity of *Cryptosporidium* oocysts. Pamela L. Young and Simeon J. Komisar
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- Alkylamine odors from degradation of flocculant polymers in sludges. Jae-Soo Chang, Mohammad Abu-Orf and Steven K. Dentel
- Eutrophication downstream from small reservoirs in mountain rivers of Central Spain. Julio A. Camargo, Álvaro Alonso and Marcos de la Puente

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- Does competition for phosphate supply explain the invasion pattern of *Elodea* species? Gabrielle Thiébaud
- Modeling the dry-weather tidal cycling of fecal indicator bacteria in surface waters of an intertidal wetland. Brett F. Sanders, Feleke Arega and Martha Sutula
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- Modeling monochloramine loss in the presence of natural organic matter. Stephen E. Duirk, Bertrand Gombert, Jean-Philippe Croué and Richard L. Valentine

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- Effect of citric acid on aluminum hydrolytic speciation. Wen Hui Kuan, Ming Kuang Wang, Pan Ming Huang, Chia Wen Wu, Chia Ming Chang and Shan Li Wang
- Phenolic wastewaters purification by thermal parametric pumping: Modeling and pilot-scale experiments. Marta Otero, Miriam Zabkova and Alírio E. Rodrigues
- Developing an optimal river typology for biological elements within the Water Framework Directive. Ian Dodkins, Brian Rippey, Thomas J. Harrington, Catherine Bradley, Bernadette Ni Chathain, Mary Kelly-Quinn, Martin McGarrigle, Stephanie Hodge and David Trigg
- Inactivation of particle-associated viral surrogates by ultraviolet light. Michael R. Templeton, Robert C. Andrews and Ron Hofmann
- Effect of long-term exposure, biogenic substrate presence, and electron acceptor conditions on the biodegradation of multiple substituted benzoates and phenolates. Zhiqiang Hu, Richard A. Ferraina, Jon F. Ericson and Barth F. Smets
- Biodegradation of thiomersal containing effluents by a mercury resistant *Pseudomonas putida* strain. Raquel Fortunato, João G. Crespo and M.A.M. Reis
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- Characterization of sewage plant hydrocolloids using asymmetrical flow field-flow fractionation and ICP-mass spectrometry. Harald Prestel, Lucie Schott, Reinhard Niessner and Ulrich Panne
- Iron type catalysts for the ozonation of oxalic acid in water. Fernando J. Beltrán, Francisco J. Rivas and R. Montero-de-Espinosa
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- under transient and steady-state hydrogen supply. Axel C. Heimann, Anne K. Friis and Rasmus Jakobsen
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  - Anaerobic digestion of animal waste: Effect of mode of mixing. Khursheed Karim, Rebecca Hoffmann, K. Thomas Klasson and M.H. Al-Dahhan
  - Oxidation of pharmaceuticals during water treatment with chlorine dioxide. Marc M. Huber, Susanna Korhonen, Thomas A. Ternes and Urs von Gunten
  - Nucleic acid fluorochromes and flow cytometry prove useful in assessing the effect of chlorination on drinking water bacteria. Meng-Huot Phe, Manuel Dossot, Hélène Guilloteau and Jean-Claude Block
  - Suspended solids in Missouri reservoirs in relation to catchment features and internal processes. John R. Jones and Matthew F. Knowlton
  - Transport of microsporidium *Encephalitozoon intestinales* spores in sandy porous media. M.L. Brusseau, J.K. Oleen, J. Santamaria, L. Cheng, P. Orosz-Coghlan, A.S. Chetochine, W.J. Blanford, P. Rykwaldler and C.P. Gerba
  - UV inactivation of adenovirus type 41 measured by cell culture mRNA RT-PCR. Gwangpyo Ko, Theresa L. Cromeans and Mark D. Sobsey
  - Inactivation of enteric adenovirus and feline calicivirus by ozone. Jeanette A. Thurston-Enriquez, Charles N. Haas, Joseph Jacangelo and Charles P. Gerba
  - Nutrient removal by NF and RO membranes in a decentralized sanitation system. Ellen M. van Voorthuizen, Arie Zwijnenburg and Matthias Wessling
  - Effect of NOM, turbidity and floc size on the PAC adsorption of MIB during alum coagulation. Lionel Ho and Gayle Newcombe
  - Leaching of heavy metals and polycyclic aromatic hydrocarbons from reclaimed asphalt pavement. M. Legret, L. Odie, D. Demare and A. Jullien
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  - Biodegradation of petroleum hydrocarbons in an immobilized cell airlift bioreactor. A. Kermanshahi pour, D. Karamanev and A. Margaritis
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- Comparative economic analysis of the impacts of mean cell retention time and denitrification on aeration systems. Diego Rosso and Michael K. Stenstrom

- A study on volatile organic sulfide causes of odors at Philadelphia's Northeast Water Pollution Control Plant. Xianhao Cheng, Earl Peterkin and Gary A. Burlingame
- Characterisation of the behaviour of particles in biofilters for pre-treatment of drinking water. Frank Persson, Jonas Långmark, Gerald Heinicke, Torsten Hedberg, John Tobiason, Thor-Axel Stenström and Malte Hermansson
- Enhanced granulation by natural ionic polymer additives in UASB reactor treating low-strength wastewater. Manoj K. Tiwari, Saumyen Guha, C.S. Harendranath and Shweta Tripathi
- Evidence from surface tension and fluorescence data of a pyrene-assisted micelle-like assemblage of humic substances. M.M.D. Sierra, T.G. Rauen, L. Tormen, N.A. Debacher and E.J. Soriano-Sierra
- Increased biological hydrogen production with reduced organic loading. Steven W. Van Ginkel and Bruce Logan
- Measuring the concentrations of drinking water disinfection by-products using capillary membrane sampling-flow injection analysis. Gija Geme, Michael A. Brown, Paul Simone, Jr. and Gary L. Emmert
- Rapid quantification of bacteria in activated sludge using fluorescence in situ hybridization and epifluorescence microscopy. Thomas Hug, Willi Gujer and Hansruedi Siegrist
- Coagulation of humic substances and dissolved organic matter with a ferric salt: An electron energy loss spectroscopy investigation. A.-V. Jung, V. Chanudet, J. Ghanbaja, B.S. Lartiges and J.-L. Bersillon
- Pilot-scale demonstration of phytofiltration for treatment of arsenic in New Mexico drinking water. Mark P. Elless, Charissa Y. Poynton, Cari A. Willms, Mike P. Doyle, Alisa C. Lopez, Dale A. Sokkary, Bruce W. Ferguson and Michael J. Blaylock
- Performance of IFAS wastewater treatment processes for biological phosphorus removal. T. Sriwiryarat and C.W. Randall
- Catalytic wet peroxide oxidation of phenol by pillared clays containing Al–Ce–Fe. J. Carriazo, E. Guélou, J. Barrault, J.M. Tatibouët, R. Molina and S. Moreno
- Adsorptive ozonation of 2-methylisoborneol in natural water with preventing bromate formation. Masaki Sagehashi, Kenji Shiraishi, Hirotaka Fujita, Takao Fujii and Akiyoshi Sakoda
- Evaluation of water treatment sludges toxicity using the *Daphnia*. Rosana B. Sotero-Santos, Odete Rocha and Jurandyr Povinelli
- Laboratory investigation of aluminum solubility and solid-phase properties following alum treatment of lake waters. Jacob Berkowitz, Michael A. Anderson and Robert C. Graham
- Contribution of trace metals from atmospheric deposition to stormwater runoff in a small impervious urban catchment. Lisa D. Sabin, Jeong Hee Lim, Keith D. Stolzenbach and Kenneth C. Schiff
- Adsorption and desorption characteristics of mercury(II) ions using aminated chitosan bead. Choong Jeon and Kwang Ha Park
- Assessment of heavy metal levels in Almendares River sediments—Havana City, Cuba. Susana Olivares-Rieumont, Daniel de la Rosa, Lazaro Lima, David W. Graham, Katia D' Alessandro, Jorge Borroto, Francisco Martínez and J. Sánchez
- Identification of microorganisms involved in reductive dehalogenation of chlorinated ethenes in an anaerobic microbial community. Yanru Yang, Manuel Pesaro, William Sigler and Josef Zeyer

- Predicting faecal indicator fluxes using digital land use data in the UK's sentinel Water Framework Directive catchment: The Ribble study. David Kay, Mark Wyer, John Crowther, Carl Stapleton, Michael Bradford, Adrian McDonald, Jon Greaves, Carol Francis and John Watkins
- Evaluation of an MBR–RO system to produce high quality reuse water: Microbial control, DBP formation and nitrate. Anna M. Comerton, Robert C. Andrews and David M. Bagley
- Removal of estrone and 17 $\beta$ -estradiol from water by adsorption. Yanping Zhang and John L. Zhou
- New model for performance prediction in fixed-bed reactors based on the approach of the unused bed zone. P.N. Fanfan, N. Mabon, I. Carletti, J.J. Claustriaux, P. Thonart, G. Lognay, A Copin and J.P. Barthélemy
- Critical analysis of submerged membrane sequencing batch reactor operating conditions. Ewan McAdam, Simon J. Judd, René Gildemeister, Anja Drews and Matthias Kraume
- The removal of perchlorate from groundwater by activated carbon tailored with cationic surfactants. Robert Parette and Fred S. Cannon
- Well characteristics influencing arsenic concentrations in ground water. Melinda L. Erickson and Randal J. Barnes
- Polar organic solvent removal in microcosm constructed wetlands. Janet Kowles Grove and Otto R. Stein

#### Volumen 39, Número 17, Octubre 2005

- Electrochemical denitrification of simulated ground water. Barada Prasanna Dash and Sanjeev Chaudhari
- Immobilization of arsenic in a tailings material by ferrous iron treatment. Heinz Seidel, Kati Görsch, Katja Amstätter and Jürgen Mattusch
- Metals and PAHs adsorbed to street particles. Sim-Lin Lau and Michael K. Stenstrom
- Kinetics of the chemical oxidation of polysulfide anions in aqueous solution. Wilfred E. Kleinjan, Arie de Keizer and Albert J.H. Janssen
- Sulfide removal in wastewater from petrochemical industries by autotrophic denitrification. Eleni Vaiopoulou, Paris Melidis and Alexander Aivasidis
- High-concentration food wastewater treatment by an anaerobic membrane bioreactor. Yiliang He, Pei Xu, Chunjie Li and Bo Zhang
- Kinetics and stoichiometry of sulfide oxidation by sewer biofilms. Asbjørn Haaning Nielsen, Thorkild Hvitved-Jacobsen and Jes Vollertsen
- Evaluation of some halogen biocides using a microbial biofilm system. Mariko Tachikawa, Masakatsu Tezuka, Masahiro Morita, Katsuhisa Isogai and Shoji Okada
- Volatile organic compounds in natural biofilm in polyethylene pipes supplied with lake water and treated water from the distribution network. Ingun Skjevrak, Vidar Lund, Kari Ormerod and Hallgeir Herikstad
- Natural waste materials containing chitin as adsorbents for textile dyestuffs: Batch and continuous studies. S.A. Figueiredo, J.M. Loureiro and R.A. Boaventura
- Removal of dissolved metals by zero-valent iron (ZVI): Kinetics, equilibria, processes and implications for stormwater runoff treatment. R. Rangsvik and M.R. Jekel
- Sorption of methyl *tert*-butyl ether (MTBE) and *tert*-butyl alcohol (TBA) to synthetic resins. Erping Bi, Stefan B. Haderlein and Torsten C. Schmidt

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- Electrochemical oxidation of olive oil mill wastewaters. Marina Gotsi, Nicolas Kalogerakis, Eleftheria Psillakis, Petros Samaras and Dionissios Mantzavinos
- Stochastic modeling of total suspended solids (TSS) in urban areas during rain events. Luca Rossi, Vladimir Krejci, Wolfgang Rauch, Simon Kreikenbaum, Rolf Fankhauser and Willi Gujer
- Greenhouse gas production: A comparison between aerobic and anaerobic wastewater treatment technology. F.Y. Cakir and M.K. Stenstrom
- Determination of organochlorine pesticides and their derivations in water after HS-SPME using polymethylphenylvinylsiloxane-coated fiber by GC-ECD. Chunzhou Dong, Zhaorui Zeng and Ming Yang
- Bacteriophage MS-2 removal by submerged membrane bioreactor. Chii Shang, Hiu Man Wong and Guanghao Chen
- Impact of support media in an integrated biofilter–submerged membrane system. O.D. Basu and P.M. Huck
- A Bayesian analysis of mouse infectivity data to evaluate the effectiveness of using ultraviolet light as a drinking water disinfectant. Song S. Qian, Karl Linden and Maureen Donnelly
- Mixed plaques: Statistical evidence how plaque assays may underestimate virus concentrations. P.F.M. Teunis, W.J. Lodder, S.H. Heisterkamp and A.M. de Roda Husman
- Fate and effect of the antioxidant ethoxyquin on a mixed methanogenic culture. Anup G. Shah, John A. Pierson and Spyros G. Pavlostathis

### Volumen 39, Número 18, Noviembre 2005

- Norovirus pathway in water environment estimated by genetic analysis of strains from patients of gastroenteritis, sewage, treated wastewater, river water and oysters. You Ueki, Daisuke Sano, Toru Watanabe, Kazuo Akiyama and Tatsuo Omura
- Mechanisms of gold recovery from aqueous solutions using a novel tannin gel adsorbent synthesized from natural condensed tannin. Takeshi Ogata and Yoshio Nakano
- Water quality parameter estimation in a distribution system under dynamic state. G.R. Munavalli and M.S. Mohan Kumar
- Conventional and thermophilic aerobic treatability of high strength oily pet food wastewater using membrane-coupled bioreactors. R. Kurian, C. Acharya, G. Nakhla and A. Bassi
- Laccase-catalyzed removal of bisphenol-A from water: Protective effect of PEG on enzyme activity. Katy Modaressi, K.E. Taylor, J.K. Bewtra and N. Biswas
- Removal and recovery of Cr(VI) from polluted ground waters: A comparative study of ion-exchange technologies. Berta Galán, David Castañeda and Inmaculada Ortiz
- Octanol–water partitioning of chemical constituents in river water and treated sewage effluent. Andrew Turner and Ian Williamson
- Thermal tolerance of the invasive oyster *Crassostrea gigas*: Feasibility of heat treatment as an antifouling option. Sanjeevi Rajagopal, Gerard van der Velde, Jeroen Jansen, Marinus van der Gaag, Guido Atsma, Joke P.M. Janssen-Mommen, Harry Polman and Henk A. Jenner
- valuation of redox indicators for determining sulfate-reducing and dechlorinating conditions. Brian D. Jones and James D. Ingle, Jr.
- Phosphorus retention and sorption by constructed wetland soils in Southeast Ireland. E.J. Dunne, N. Culleton, G. O'Donovan, R. Harrington and K. Daly

- Biological and chemical interactions with U(VI) during anaerobic enrichment in the presence of iron oxide coated quartz. Brady D. Lee, Michelle R. Walton and Jodette L. Megio
- Clearance rates of *Sabella spallanzanii* and *Branchiomma luctuosum* (Annelida: Polychaeta) on a pure culture of *Vibrio alginolyticus*. Margherita Licciano, Loredana Stabili and Adriana Giangrande
- Sorptive removal of trivalent and hexavalent chromium from binary aqueous solutions by composite alginate–goethite beads. N.K. Lazaridis and Ch. Charalambous
- Short-term harmful effects of ammonia nitrogen on activated sludge microfauna. Jaume Puigagut, Humbert Salvadó and Joan García
- Thermal fluorescence quenching properties of dissolved organic matter. Andy Baker
- Inhibition kinetics of salt-affected wetland for municipal wastewater treatment. Suwanchai Nitisoravut and Pantip Klomjek
- The mechanisms of potassium permanganate on algae removal. Jen-Jeng Chen and Hsuan-Hsien Yeh
- Rheological characteristics of the cationic polyelectrolyte flocculated wastewater sludge. Bing-Hung Chen, Sue-Jean Lee and D.J. Lee
- The occurrence and removal of phthalates in a trickle filter STW. Roly Oliver, Eric May and John Williams
- Peracetic acid (PAA) disinfection of primary, secondary and tertiary treated municipal wastewaters. J. Koivunen and H. Heinonen-Tanski
- Influence of geometrical and operational parameters on the axial dispersion in an aerated channel reactor. Olivier Potier, Jean-Pierre Leclerc and Marie-Noëlle Pons
- Removal of iron and manganese using biological roughing up flow filtration technology. Virginia Alejandra Pacini, Ana María Ingallinella and Graciela Sanguinetti
- Formation of aerobic granules and conversion processes in an aerobic granular sludge reactor at moderate and low temperatures. M.K. de Kreuk, M. Pronk and M.C.M. van Loosdrecht
- *Escherichia coli* O157:H7 in drinking water from private water supplies in the Netherlands. Franciska M. Schets, Marcel Duing, Ronald Italiaander, Leo Heijnen, Saskia A. Rutjes, Willem K. van der Zwaluw and Ana Maria de Roda Husman
- Swimming pool water—fractionation and genotoxicological characterization of organic constituents. Thomas Glauner, Petra Waldmann, Fritz H. Frimmel and Christian Zwiener
- Applicability of alkaline hydrolysis for remediation of TNT-contaminated water. Sangchul Hwang, Timothy J. Ruff, Edward J. Bouwer, Steven L. Larson and Jeffrey L. Davis
- Oxygen-limited autotrophic nitrification–denitrification (OLAND) in a rotating biological contactor treating high-salinity wastewater. Kim Windey, Inge De Bo and Willy Verstraete
- Partitioning of dissolved chlorinated ethenes into vegetable oil. Patricia Pfeiffer, Angela R. Bielefeldt, Tissa Illangasekare and Bruce Henry
- Removal and recovery of Cr(VI) from wastewater by maghemite nanoparticles. Jing Hu, Guohua Chen and Irene M.C. Lo
- Microbial community activities during establishment, performance, and decline of bench-scale passive treatment systems for mine drainage. Miranda V. Logan, Kenneth F. Reardon, Linda A. Figueroa, Jean E.T. McLain and Dianne M. Ahmann

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- Classification of bathing water quality based on the parametric calculation of percentiles is unsound. Raymond Chawla and Paul R. Hunter
- Development and application of functional assays for freshwater dissolved organic matter. S.A. Thacker, E. Tipping, A. Baker and D. Gondar
- Respirometric calibration and validation of a biological nitrite oxidation model including biomass growth and substrate inhibition. Irene Jubany, Juan Antonio Baeza, Julián Carrera and Javier Lafuente

### Volumen 39, Numero 19, Noviembre 2005

- Low-temperature anaerobic biological treatment of solvent-containing pharmaceutical wastewater. Anne-Marie Enright, Sharon McHugh, Gavin Collins and Vincent O'Flaherty
- Changes at an activated sludge sewage treatment plant alter the numbers of airborne aerobic microorganisms. Nadeesha L. Fernando and Phillip M. Fedorak
- Removal of soluble COD by a biofilm formed on a membrane in a jet loop type membrane bioreactor. Jong-Sang Park and Chung-Hak Lee
- Characterization of phosphorus-releasing bacteria in a small eutrophic shallow lake, Eastern China. Wu Gen-Fu and Zhou Xue-Ping
- Consequences of mass transfer effects on the kinetics of nitrifiers. Reto Manser, Willi Gujer and Hansruedi Siegrist
- Sulphate reduction and the removal of carbon and ammonia in a laboratory-scale constructed wetland. A. Wiessner, U. Kappelmeyer, P. Kusch and M. Kästner
- Biological removal of polychlorinated dibenzo-*p*-dioxins from incinerator fly ash by *Sphingomonas wittichii* RW1. In-Hyun Nam, Hyo-Bong Hong, Young-Mo Kim, Byung-Hoon Kim, Kumarasamy Murugesan and Yoon-Seok Chang
- Advanced oxidation effect of ozonation combined with electrolysis. Naoyuki Kishimoto, Yukako Morita, Hiroshi Tsuno, Tomoaki Oomura and Hiroshi Mizutani
- Hydrogen and electricity production from a food processing wastewater using fermentation and microbial fuel cell technologies. SangEun Oh and Bruce E. Logan
- Removing low ppb level perchlorate, RDX, and HMX from groundwater with cetyltrimethylammonium chloride (CTAC) pre-loaded activated carbon. Robert Parette, Fred S. Cannon and Katherine Weeks
- Transformation and characterisation of dissolved organic matter during the thermophilic aerobic biodegradation of faeces. Hiroki Narita, Miguel Angel Lopez Zavala, Kaori Iwai, Ryusei Ito and Naoyuki Funamizu
- Generation of active entities by the pulsed arc electrohydraulic discharge system and application to removal of atrazine. N. Karpel Vel Leitner, G. Syoen, H. Romat, K. Urashima and J.-S. Chang
- Electrochemical degradation of 1,2-dichloroethane (DCA) in a synthetic groundwater medium using stainless-steel electrodes. Rajesh Bejankiwar, Jerald A. Lalman, Rajesh Seth and Nihar Biswas
- Effect of heat recovery from raw wastewater on nitrification and nitrogen removal in activated sludge. Oskar Wanner, Vassileios Panagiotidis, Peter Clavadetscher and Hansruedi Siegrist
- Lipophilic organic contaminants in the Rhine river, Germany. Jan Schwarzbauer and Sabine Heim
- Application of microwaves for sewage sludge conditioning. Ewa Wojciechowska DBP formation in breakpoint chlorination of wastewater. Xin Yang, Chii Shang and Ju-Chang Huang

- Variability estimation of urban wastewater biodegradable fractions by respirometry. Fabienne Lagarde, Marie-Hélène Tusseau-Vuillemin, Paul Lessard, Alain Héduit, François Dutrop and Jean-Marie Mouchel
- Characterization of natural organic matter in conventional water treatment processes for selection of treatment processes focused on DBPs control. Hyun-Chul Kim and Myong-Jin Yu
- Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment. Marta Carballa, Francisco Omil and Juan M. Lema
- Removal of selected pharmaceuticals, fragrances and endocrine disrupting compounds in a membrane bioreactor and conventional wastewater treatment plants. M. Clara, B. Strenn, O. Gans, E. Martinez, N. Kreuzinger and H. Kroiss
- Evaluation of quantitative real time PCR for the measurement of *Helicobacter pylori* at low concentrations in drinking water. A.E. McDaniels, L. Wymer, C. Rankin and R. Haugland
- Nitrogen and phosphorus removal from an abattoir wastewater in a SBR with aerobic granular sludge. D.P. Cassidy and E. Belia
- Application of commercial biochemical oxygen demand inocula for biodegradable dissolved organic carbon determination. Eakalak Khan, Ousmane Sy-Savane and Rungrid Jittawattarat
- Inhibition of calcite crystal growth by polyphosphates. Yi-Pin Lin and Philip C. Singer

#### Volumen 39, Número 20, Diciembre 2005

- Microbiological investigations for sanitary assessment of wastewater treated in constructed wetlands. Hagedorf Ulrich, Diehl Klaus, Feuerpfeil Irmgard, Hummel Annette, Lopez-Pila Juan and Szewzyk Regine
- Development of an advanced biological treatment system applied to the removal of nitrogen and phosphorus using the sludge ceramics. Yufang Yang, Yuhei Inamori, Hitoshi Ojima, Hiroki Machii and Yasutoshi Shimizu
- Comparison of commercially available *Escherichia coli* enumeration tests: Implications for attaining water quality standards. William P. Hamilton, Moonil Kim and Edward L. Thackston
- The effect of hygienic treatment on the microbial flora of biowaste at biogas plants. Elisabeth Bagge, Leena Sahlström and Ann Albihn
- Coupling of sequencing batch reactor and mesh filtration: Operational parameters and wastewater treatment performance. Yoshiaki Kiso, Yong-Jun Jung, Min-Soo Park, Wenhui Wang, Masahiro Shimase, Toshiro Yamada and Kyung-Sok Min
- Seasonal occurrence and degradation of 2-methylisoborneol in water supply reservoirs. Paul Westerhoff, M. Rodriguez-Hernandez, Larry Baker and Milton Sommerfeld
- Using a battery of bioassays, benthic phytoplankton and the AUSRIVAS method to monitor long-term coal tar contaminated sediment in the Cache la Poudre River, Colorado. P.J. Oberholster, A.-M. Botha and T.E. Cloete
- Feasibility of the silver-UV process for drinking water disinfection. Michael A. Butkus, Mark Talbot and Michael P. Labare
- Method for monitoring the fate of green fluorescent protein added to aerobic and anaerobic wastewater sludge. Isabel Morales Belpaire, Françoise Bindels, Philippe Corvini and Patrick A. Gerin

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- Evaluation of kinetic parameters of a sulfur–limestone autotrophic denitrification biofilm process. Hui Zeng and Tian C. Zhang
- Statistical basis for predicting the need for bacterially induced beach closures: Emergence of a paradigm? Greg A. Olyphant
- Electricity generation from swine wastewater using microbial fuel cells. Booki Min, JungRae Kim, SangEun Oh, John M. Regan and Bruce E. Logan
- Optimizing experimental design to estimate ammonia and nitrite oxidation biokinetic parameters from batch respirograms. Kartik Chandran and Barth F. Smets
- *Nitrobacter* and *Nitrospira* genera as representatives of nitrite-oxidizing bacteria: Detection, quantification and growth along the lower Seine River (France) Aurélie Cébron and Josette Garnier
- Selective removal of arsenate from drinking water using a polymeric ligand exchanger. Byungryul An, Thomas R. Steinwinder and Dongye Zhao
- Submarine tailings placement by a copper mine in the deep anoxic zone of the Black Sea. Mehmet Berkun
- Characterization of nitrogen-fixing cyanobacteria in the Brazilian Amazon floodplain. Marli de Fátima Fiore, Brett A. Neilan, Janine N. Copp, Jorge L.M. Rodrigues, Siu M. Tsai, Hung Lee and Jack T. Trevors
- Zero-valent iron pretreatment for enhancing the biodegradability of RDX. Seok-Young Oh, Pei C. Chiu, Byung J. Kim and Daniel K. Cha
- Removal of neutral chloroacetamide herbicide degradates during simulated unit processes for drinking water treatment. Michelle L. Hladik, A. Lynn Roberts and Edward J. Bouwer
- Bioremediation of crystal violet using air bubble bioreactor packed with *Pseudomonas aeruginosa*. M.A. Manal, Samy El-Naggar, A. El-Aasar and I. Barakat Khlood
- Development of a reliable alkaline wastewater treatment process: optimization of the pre-treatment step. M. Prisciandaro, G. Mazziotti di Celso and F. Vegliò
- A coupled photocatalytic–biological process for degradation of 1-amino-8-naphthol-3, 6-disulfonic acid (H-acid). Sagarika Mohanty, Nageswara Neti Rao, Pradnya Khare and Santosh Narain Kaul
- Analysis of bisphenol A in natural waters by means of an optical immunosensor. S. Rodriguez-Mozaz, M. Lopez de Alda and D. Barceló
- Modelling nitrification, heterotrophic growth and predation in activated sludge. M.S. Moussa, C.M. Hooijmans, H.J. Lubberding, H.J. Gijzen and M.C.M. van Loosdrecht
- Non-equilibrium partitioning tracer transport in porous media: 2-D physical modelling and imaging using a partitioning fluorescent dye. Edward H. Jones and Colin C. Smith
- Use of cholinesterase activity as an indicator for the effects of combinations of organophosphorus pesticides in water from environmental sources. Maiko Tahara, Reiji Kubota, Hiroyuki Nakazawa, Hiroshi Tokunaga and Tetsuji Nishimura
- Ozonation of the marine dinoflagellate alga *Amphidinium* sp.—implications for ballast water disinfection. D.J. Oemcke and J. (Hans) van Leeuwen
- Dynamic behavior of fractional suspended solids and particle-bound polycyclic aromatic hydrocarbons in highway runoff. R.K. Aryal, H. Furumai, F. Nakajima and M. Boller

- Comparative studies on potential of consortium and constituent pure bacterial isolates to decolorize azo dyes. Manjinder Singh Khehra, Harvinder Singh Saini, Deepak Kumar Sharma, Bhupinder Singh Chadha and Swapandeep Singh Chimni
- Effect of mechanical stress on biofilms challenged by different chemicals. Manuel Simões, Maria Olivia Pereira and Maria João Vieira
- Virus removal by iron coagulation–microfiltration. Bintuan Zhu, Dennis A. Clifford and Shankar Chellam
- Quantifying the uncertainty of on-line sensors at WWTPs during field operation. Leiv Rieger, Michael Thomann, Willi Gujer and Hansruedi Siegrist
- Adsorbent obtained from CEPT sludge in wastewater chemically enhanced treatment. G.R. Xu, W.T. Zhang and G.B. Li
- Filtration methods for recovery of *Bacillus anthracis* spores spiked into source and finished water. Abril Perez, Christina Hohn and James Higgins
- Removal of As(III) and As(V) from water using a natural Fe and Mn enriched sample. Eleonora Deschamps, Virginia S.T. Ciminelli and Wolfgang H. Höll
- The erosion behaviour of biologically active sewer sediment deposits: Observations from a laboratory study. Robert Banasiak, Ronny Verhoeven, Renaat De Sutter and Simon Tait
- Modeling sediment impact on the transport of fecal bacteria. Sen Bai and Wu-Seng Lung
- Zero net growth in a membrane bioreactor with complete sludge retention. G. Laera, A. Pollice, D. Saturno, C. Giordano and A. Lopez
- Nowcast modeling of *Escherichia coli* concentrations at multiple urban beaches of southern Lake Michigan. Meredith B. Nevers and Richard L. Whitman
- Modelling of coliform removal in 186 facultative and maturation ponds around the world. Marcos Von Sperling

#### **Volumen 40, Número 1, Enero 2006**

- Wind, rain and bacteria: The effect of weather on the microbial composition of roof-harvested rainwater. C.A. Evans, P.J. Coombes and R.H. Dunstan
- Characterization of biofilm structure and its effect on membrane permeability in MBR for dye wastewater treatment. Mi-Ae Yun, Kyung-Min Yeon, Jong-Sang Park, Chung-Hak Lee, Jongsik Chun and Dong Joon Lim
- Optimum design and operation of primary sludge fermentation schemes for volatile fatty acids production. J. Chanona, J. Ribes, A. Seco and J. Ferrer
- Electrokinetic dewatering of Turkish glass sand plant tailings. O. Bayat, O. Kilic, B. Bayat, M. Anil, H. Akarsu and C. Poole
- Microbial source tracking using host specific FAME profiles of fecal coliforms. Metin Duran, Berat Z. Haznedaroğlu and Daniel H. Zitomer
- Solid–liquid separation of faecal sludge using drying beds in Ghana: Implications for nutrient recycling in urban agriculture. O.O. Cofie, S. Agbottah, M. Strauss, H. Esseku, A. Montangero, E. Awuah and D. Kone
- Simulation of the operation of detention tanks. Paolo S. Calabrò and Gaspare Viviani
- Linking catchment characteristics and water chemistry with the ecological status of Irish rivers. Ian Donohue, Martin L. McGarrigle and Paul Mills
- Metal toxicity in municipal wastewater activated sludge investigated by multivariate analysis and in situ hybridization. P. Principi, F. Villa, M. Bernasconi and E. Zanardini

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- Degradation of Pb–EDTA complex by a H<sub>2</sub>O<sub>2</sub>/UV process. D. Jiraroj, F. Unob and A. Hagège
- Phosphorus removal by an ‘active’ slag filter—a decade of full scale experience. Andy N. Shilton, Ibrahim Elmetri, Aleksandra Drizo, Steven Pratt, Richard G. Haverkamp and Stuart C. Bilby
- Second-order kinetic model for the sorption of cadmium onto tree fern: A comparison of linear and non-linear methods. Yuh-Shan Ho
- Influence of internal biogas production on hydrodynamic behavior of anaerobic fluidized-bed reactors. Chun-Sheng Wu, Ju-Sheng Huang and Hsin-Hsien Chou
- Optimization of phosphate removal in anodizing aluminium wastewater. J.M. Chimenos, A.I. Fernández, A. Hernández, L. Haurie, F. Espiell and C. Ayora
- Ionic strength effect on copper biosorption by *Sphaerotilus natans*: equilibrium study and dynamic modelling in membrane reactor. F. Beolchini, F. Pagnanelli, L. Toro and F. Vegliò
- Processes driving the episodic flux of faecal indicator organisms in streams impacting on recreational and shellfish harvesting waters. Jeremy Wilkinson, David Kay, Mark Wyer and Alan Jenkins
- A bench-scale aeration study using batch reactors on swine manure stabilization to control odour in post treatment storage. ZhiJian Zhang, Jun Zhu and Keum J. Park
- A Bayesian method to estimate proportional payments of users in a wastewater treatment plant. Victor M. Gómez-Muñoz, Miguel Angel Porta-Gándara and Jaime Cervantes de Gortari

### Volumen 40, Número 2, Enero 2006

- Organochlorinated pesticide multiresidues in surface sediments from Beijing Guanting reservoir. Nandong Xue, Daren Zhang and Xiaobai Xu
- Characteristics of nitrate reduction by zero-valent iron powder in the recirculated and CO<sub>2</sub>-bubbled system. Chalermchai Ruangchainikom, Chih-Hsiang Liao, Jin Anotai and Ming-Tang Lee
- Identification of wastewater sludge characteristics to predict critical flux for membrane bioreactor processes. Fengshen Fan, Hongde Zhou and Hadi Husain
- Electrochemically assisted photocatalytic degradation of Acid Orange 7 with □-PbO<sub>2</sub> electrodes modified by TiO<sub>2</sub>. Guoting Li, Jiuhui Qu, Xiwang Zhang and Jiantuan Ge
- Formation, adsorption and separation of high molecular weight disinfection byproducts resulting from chlorination of aquatic humic substances. Xiangru Zhang and Roger A. Minear
- Simultaneous removal of perchlorate and nitrate from drinking water using the ion exchange membrane bioreactor concept. Cristina T. Matos, Svetlozar Velizarov, João G. Crespo and Maria A.M. Reis
- Adsorbability of estrone and 17□-estradiol in water onto activated carbon. Tomoko Fukuhara, Satoshi Iwasaki, Makoto Kawashima, Osamu Shinohara and Ikuo Abe
- Design optimization of a self-cleaning moving-bed bioreactor for seawater denitrification. Marianne Dupla, Yves Comeau, Serge Parent, Richard Villemur and Mario Jolicoeur
- A different approach for predicting H<sub>2</sub>S<sub>(g)</sub> emission rates in gravity sewers. Ori Lahav, Amitai Sagiv and Eran Friedler
- Toxicity evaluation of surface water treated with different disinfectants in HepG2 cells. Laura Marabini, Silvia Frigerio, Enzo Chiesara and Sonia Radice

- Size distribution of wastewater COD fractions as an index for biodegradability. Ebru Dulekgurgen, Serdar Doğanruel, Özlem Karahan and Derin Orhon
- Horseradish peroxidase immobilized on aluminum-pillared interlayered clay for the catalytic oxidation of phenolic wastewater. Jun Cheng, Shao Ming Yu and Peng Zuo
- Equilibrium and kinetic modelling of Cd(II) biosorption by algae *Gelidium* and agar extraction algal waste. Vítor J.P. Vilar, Cidália M.S. Botelho and Rui A.R. Boaventura
- Study of catalyzed ozonation for advanced treatment of pulp and paper mill effluents. Virginie Fontanier, Vincent Farines, Joël Albet, Sylvie Baig and Jacques Molinier
- Development of a tubular high-density plasma reactor for water treatment. Derek C. Johnson, David S. Dandy and Vasgen A. Shamamian
- Hybrid photocatalysis/membrane treatment for surface waters containing low concentrations of natural organic matters. Pierre Le-Clech, Eun-Kyung Lee and Vicki Chen
- Effect of operating parameters on molinate biodegradation. Patrícia Correia, Rui A.R. Boaventura, Maria A.M. Reis and Olga C. Nunes
- Formation of nitrosodimethylamine (NDMA) during chlorine disinfection of wastewater effluents prior to use in irrigation systems. Elif Pehlivanoglu-Mantas, Elisabeth L. Hawley, Rula A. Deeb and David L. Sedlak
- Catalytic hydrodechlorination of 2,4-dichlorophenol over nanoscale Pd/Fe: Reaction pathway and some experimental parameters. Jianjun Wei, Xinhua Xu, Yong Liu and Dahui Wang
- Biological activation of carbon filters. Bożena Serejska-Sobecka, Maria Tomaszewska, Magdalena Janus and Antoni W. Morawski
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#### Volumen 40, Número 3, Febrero 2006

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- Evaluation of the catalytic reduction of nitrate for the determination of dissolved organic nitrogen in natural waters. Sonia Ambonguilat, Hervé Gallard, Anthony Garron, Florence Epron and Jean Philippe Croué
- New measurement principle and basic performance of high-sensitivity turbidimeter with two optical systems in series. Kunio Ebie, Dabide Yamaguchi, Hiroshi Hoshikawa and Toru Shirozu
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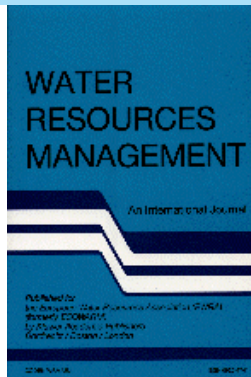
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### Water Resources Management

<http://www.kluweronline.com/issn/0920-4741>



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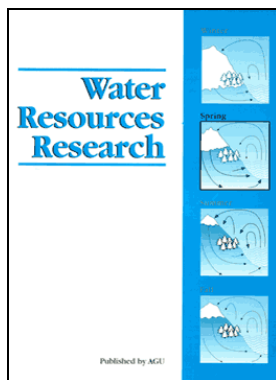
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- Discovering Reservoir Operating Rules by a Rough Set Approach. Salvatore Barbagallo, Simona Consoli, Nello Pappalardo, Salvatore Greco, Santo Marcello Zimbone
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- Comparison of Different Indicators for Groundwater Contamination by Seawater Intrusion on the Lebanese Coast. M. El Moujabber, B. Bou Samra, T. Darwish, T. Atallah
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<http://www.agu.org/journals/wr/>



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- Wavelet and scaling analysis of monthly precipitation extremes in Germany in the 20th century: Interannual to interdecadal oscillations and the North Atlantic Oscillation influence. Markovi, D.; Koch, M.
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### Volumen 41, Número 11, Noviembre 2005

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**Volumen 41, Número 12, Diciembre 2005**

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#### **Volumen 42, Número 1, Enero 2006**

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