

From *Journal of Hydraulic Research*, vol. 46

46, No. 1

Flow patterns in nappe flow regime down low gradient stepped chutes

L. Toombes and H. Chanson

Numerical investigation of flow recirculation in a draft tube

K. K. Adane, S. J. Ormiston and M. F. Tachie

Improved implementation of the HLL approximate Riemann solver for one-dimensional open channel flows

Xinya Ying and Sam S. Y. Wang

Similitude and scale effects of air entrainment in hydraulic jumps

Hubert Chanson and Carlo Gualtieri

Two-dimensional shallow-water model with porosity for urban flood modelling

Sandra Soares-Frazão, Julien Lhomme, Vincent Guinot and Yves Zech

Turbulence and cavity recirculation in air–water skimming flows on a stepped spillway

C. A. Gonzalez and H. Chanson

Minimum channel length for roll-wave generation

C. Di Cristo, M. Iervolino, A. Vacca and B. Zanuttigh

A global model of a tidal jet including the effects of friction and bottom slope

Miguel Ortega-Sánchez, Miguel A. Losada and Asunción Baquerizo

One-dimensional explicit finite-volume model for sediment transport with transient flows over movable beds

Weiming Wu and Sam S. Y. Wang

2D modelling of erosion/deposition processes with suspended load using upwind finite volumes

J. Murillo, P. García-Navarro, P. Brufau and J. Burguete

Flow characteristics in meandering channels with non-mobile and mobile beds for overbank flows

K. Shiono, J. Spooner, T. Chan, P. Rameshwaran and J. Chandler

Design method for circular and non-circular sewer sections

Ashok K. Sharma and Prabhata K. Swamee

46, No. 2

Evaluation of high-velocity plunging jet-issuing characteristics as a basis for plunge pool analysis

P. F. A. Manso, E. F. R. Bollaert and A. J. Schleiss

Influence of tailwater depth, sediment size and densimetric Froude number on scour by submerged square wall jets

Partha Sarathi, M. A. A. Faruque and Ram Balachandar

Dam-break induced sediment movement: Experimental approaches and numerical modelling

Y. Zech, S. Soares-Frazão, B. Spinewine and N. Le Grelle

The concept of roughness in fluvial hydraulics and its formulation in 1D, 2D and 3D numerical simulation models

Hervé Morvan, Donald Knight, Nigel Wright, Xiaonan Tang and Amanda Crossley

Three-dimensional numerical modeling of reservoir sediment release

A. Khosronejad, C. D. Rennie, A. A. Salehi Neyshabouri and I. Gholami

Mitigation of sedimentation problems in the lower reach of the River Klarälven

Bijan Dargahi

Optimal design and operation of irrigation pumping stations using mathematical programming and Genetic Algorithm (GA)

Mahdi Moradi-Jalal and Bryan W. Karney

Kinematics of horseshoe vortex development in an evolving scour hole at a square cylinder

Rajkumar V. Raikar and Subhasish Dey

Improved 1-D modelling in compound meandering channels with vegetated floodplains

J. P. Martín-Vide, P. J. M. Moreta and S. López-Querol

Design of noncircular sewer sections

Prabhata K. Swamee and Nimisha Swamee

Real-time sediment monitoring in hydropower plants

M. B. Bishwakarma and H. Støle

46, No. 3

Near-bed turbulence models: Significance for diffusional mass transfer at the sediment/water interface

Makoto Higashino and Heinz G. Stefan

Plunging conditions of two-dimensional negative buoyant surface jets released on a sloping bottom

Masamitsu Arita and Masanori Nakai

LES study of turbulent flows with submerged vegetation

Jie Cui and Vincent S. Neary

Conditions for a better agreement between sediment transport formulas and surveys in alluvial streams

Alfonso Pujol

Flow over bedforms in a large sand-bed river: A field investigation

Robert R. Holmes Jr. and Marcelo H. García

Scour control and surface sediment distribution downstream of block ramps

Stefano Pagliara and Michele Palermo

Flow details of a circular cylinder mounted on a flat plate

Nurhan Adil Ozturk, Azize Akkoca and Besir Sahin

A 3D non-hydrostatic model to predict flow and sediment transport in loose-bed channel bends

Jie Zeng, George Constantinescu and Larry Weber

Parameters affecting water-hammer wave attenuation, shape and timing – Part 1: Mathematical tools

Anton Bergant, Arris S. Tijsseling, John P. Vitkovský, Dídia I. C. Covas, Angus R. Simpson and Martin F. Lambert

- Parameters affecting water-hammer wave attenuation, shape and timing – Part 2: Mathematical tools
Anton Bergant, Arris S. Tijsseling, John P. Vitkovský, Didia I. C. Covas, Angus R. Simpson and Martin F. Lambert
- Leak detection in long pipelines using the least squares method
Abdulrahman Al-Khomairi
- 3-D numerical modeling of supercritical flow in gradual expansions
Anastasios I. Stamou, Demetrios G. Chapsas and George C. Christodoulou
- Analysis of pressures on a stepped spillway
Martí Sánchez-Juny, Ernest Bladé and Josep Dolz
- Boulder-flow interaction associated with self-aeration process
Serhat Kucukali and Sevket Cokgor
- 46, No. 4
Johann Nikuradse – Hydraulic experimenter
Willi H. Hager and Uno Liiv
- Large eddy simulation of a long asymmetric compound open channel
John E. Cater and John J. R. Williams
- Laboratory measurements of 3-D flow patterns and turbulence in straight open channel with rough bed
José F. Rodríguez and Marcelo H. García
- Integration of a shallow water model with a local time step
Brett F. Sanders
- Review of seepage effects on turbulent open-channel flow and sediment entrainment
Yan Lu, Yee-Meng Chiew and Nian-Sheng Cheng
- Experimental validation of a sediment transport two-dimensional depth-averaged numerical model using PIV and 3D Scanning technologies
Enrique Peña González, Jaime Fe Marqués, Félix Sánchez-Tembleque, Díaz-Pache, Jerónimo Puertas Agudo and Luis Cea Gómez
- Tailwater effects on the characteristics of a square jet near a free-surface
Girish Sankar, Ram Balachandar and Rupp Carriveau
- A transient 2-D water quality model for pipeline systems
Gholamreza Naser and Bryan W. Karney
- Integration of unsteady friction models in pipe flow simulations
Iztok Tiselj and Janez Gale
- Influence of foliage on flow resistance of emergent vegetation
Christopher S. James, Uwe K. Goldbeck, Anthony Patini and Angelina A. Jordanova
- Curvilinear flow over round-crested weirs
Oscar Castro-Orgaz
- Influence of secondary flow on distribution of suspended sediment concentration
Zhi-Qian Wang and Nian-Sheng Cheng
- 46, No. 5
A new integrated, hydro-mechanical model applied to flexible vegetation in riverbeds
D. Velasco, A. Bateman and V. Medina
- Boundary shear stress in open channel flow: A comparison among six methods
Saeed Reza Khodashenas, Kamal El Kadi, Abderrezzak and André Paquier
- Effect of submerged vanes on the scour occurring at a cylindrical pier
B. Ghorbani and J. A. Kells
- Interaction between submerged vanes for sediment management
Huei-Tau Ouyang, Jihn-Sung Lai, Hsin Yu and Chin-Huang Lu
- Experimental study of sediment transport hysteresis
Manzoor A. Ahanger, Girdhari L. Asawa and Mohd A. Lone
- One-dimensional modelling of fluvial bed morphodynamics
Jingmin Huang, Alistair G. L. Borthwick and Richard L. Soulsby
- Dam-break flow through an idealised city
Sandra Soares-Frazaõ and Yves Zech
- Numerical modeling of hyper-concentrated sediment transport in the Lower Yellow River
Qingchao Guo, Chunhong Hu, Koniyoshi Takeuchi, Hiroshi Ishidaira, Wenhong Cao and Jixin Mao
- Application of Multi-Block method for simulating shallow free surface flows in complex geometries
M. R. Hadian and A. R. Zarrati
- A turbulent approach to unsteady friction
Ivo Pothof
- Hydraulic design of Khafagi flumes
Oscar Castro-Orgaz
- Application of potential flow to circular-crested weir
Manouchehr Heidarpour, Jahanshir Mohammadzadeh Habili and Amir Hamzeh Haghiabi
- A note on Chow's description of the weak hydraulic jump
William Hogarth, Jean-Yves Parlange, C. W. Rose, Graham Sander, Michael Todd Walter and Michael Faivre Walter
- Lacey regime equations for river Brahmaputra
Prabhata K. Swamee, Nayan Sharma and Ambuj Dwivedi
- Increased aeration efficiency of high-head conduit flow systems
Mehmet Unsal, Ahmet Baylar, Mehmet Tugal and Fahri Ozkan
- 46, No. 6
Experimental and numerical modeling of symmetrical four-branch supercritical cross junction flow
Emmanuel Mignot, André Paquier and Nicolas Rivière
- Numerical computation of the flow in hydraulic jump stilling basins
R. F. Carvalho, C. M. Lemos and C. M. Ramos
- Analytical treatment of source terms for complex channel geometry
Leonardo Schippa and Sara Pavan
- Effects of varying submergence and channel width on local scour by plane turbulent wall jets
Alex Bey, M. A. A. Faruque and Ram Balachandar
- Erosion resistance of cohesive soils
Tarek Salaheldin Mostafa, Jasim Imran and M. Hanif Chaudhry
- The front condition for intrusive gravity currents
Roger I. Nokes, Mark J. Davidson, Charlotte A. Stepien, William B. Veale and Rowan L. Oliver
- Effect of bed dunes on spatial development of open-channel flow
Athanasios A. Dimas, Nikolaos Th. Fourniotis, Andreas P. Vouros and Alexander C. Demetrapoulos
- A study of the effects of the longitudinal arrangement of submerged vanes on sediment behavior near intake structures
Hojjat Allah Yonesi, Mohhammad Hossein Omid and Amir Hamzeh Haghiabi
- Flow induced by a turbulent jet under random waves
Barry Ying-Fan Tam and Chi-Wai Li
- Vapor cavity collapse downstream from orifice plates
Nathan Q. Smith, Michael C. Johnson and Steven L. Barfuss
- Reliability analysis of design discharge for mountainous gully flow
Jinn-Chyi Chen, Chyan-Deng Jan and Ming-Hsi Lee
- Air uptake along the lower nappe of a spillway aerator
Alberto Carlos, De Melo Lima, Harry Edmar Schulz and John S. Gulliver
- Energy and momentum under critical flow conditions
Oscar Castro-Orgaz, Juan Vicente Giráldez and Jose Luis Ayuso
- Higher order critical flow condition in curved streamline flow
Oscar Castro-Orgaz, Juan Vicente Giráldez and Jose Luis Ayuso