

## CONTENTS

<b>Editors</b>	v
<b>GA Application to Determine Optimal Pumping Policy in Heterogeneous Unconfined Aquifer</b> <i>B. Aparna and A. K. Rastogi</i>	1
<b>Study of the Fresh Groundwater Resources, Neil Island, India</b> <i>V. K. Saxena</i>	15
<b>Multigeological Studies for Illustration of the Water–Rock Interactions in Al Jaww Plain, East of Al Ain Area, United Arab Emirates (UAE)</b> <i>Ahmed A. Murad, Ayman El-Saiy and Hind S. Al-Nuaimi</i>	23
<b>A Modified Combined Model of a Geyser Induced by Inflow of Gas: Considering Evaporation Effect of Gas Dissolved In Hot Spring Water</b> <i>Hiroyuki Kagami</i>	37
<b>Emerging Concepts in Hydrology for Tropical Pacific Regimes</b> <i>James P. Terry</i>	45
<b>Scaling Parameter Estimation for Rainfall Events in Bangkok Using EM–SRE Algorithm</b> <i>Virat Chatdarong, Hansa Vathananukij and Pornpimol Pipatthawornsuk</i>	57

<b>Stochastic Generation of Monthly Rainfall Data</b> <i>R. Srikanthan</i>	71
<b>Hydrologic Time Series Data Modeling Using Multiplicative ARIMA</b> <i>Chakkramong Taewichit and Suwatana Chittaladakorn</i>	81
<b>Evapotranspiration Estimates for a Stochastic Soil-Moisture Model</b> <i>Chavalit Chaleeraktragoon and Somrit Somsakun</i>	95
<b>Isotopic Compositions of Rainfall Depend on the Diurnal Variations of Humidity and Cloud System in Thailand</b> <i>Kimpei Ichiyonagi, Kei Yoshimura and Manabu D. Yamanaka</i>	107
<b>Differenced Series for Better Accuracy in Phase-Space Prediction of Hydrological Time Series</b> <i>Dulakshi S. K. Karunasingha and Shie-Yui Liong</i>	119
<b>Intense Convective Rain Estimation Using Geostationary Meteorological Satellite</b> <i>Wardah Tahir, Sahol Hamid Abu Bakar and Maznorizan Mohamad</i>	133
<b>Estimating Global Distribution of Spatial and Temporal Correlation Length of Point Rainfall Intensity Using Low Frequent Observations from Space</b> <i>Eiichi Nakakita and Lisako Konoshima</i>	149
<b>Analysis of Monami Waves in Aquatic Vegetation</b> <i>S. Patil, V. P. Singh and A. K. Rastogi</i>	161

<b>Application of the Generalized Extreme Value Distribution to Australian Peak Discharge Data</b>	171
<i>R. Srikanthan, Murray C. Peel Thomas A. McMahon and Doerte Jakob</i>	
<b>Numerical Simulation of Water Level Reduction Due to Flushing of Sandbars in Agano River Mouth</b>	185
<i>Masashige Tayasu, Tokuzo Hosoyamada and Pujiraharjo Alwafi</i>	
<b>Development of Discharge-Stage Relation Using Artificial Neural Network</b>	197
<i>Tapesh K. Ajmera and A. K. Rastogi</i>	
<b>Sediment Deposition Rates Downstream of Harvested and Natural Peat Bogs in New Brunswick, Canada</b>	207
<i>Bronwyn Pavey, Simon Courtenay, André St-Hilaire and Taha Ourda</i>	
<b>Fine Sediment Deposition in a Curved Channel with an Intake Weir</b>	223
<i>Yoshiyuki Shirotori, Kozo Watanabe, Keiko Udo and Akira Mano</i>	
<b>Variation of Water Depth and Velocity by Accumulated Debris at Pier</b>	237
<i>Gye-Woon Choi, Sang-Wook Cho, Myung-Soo Ham and Young-Kyu Kim</i>	
<b>Assessment of Institutional Capacities of Flood Management Institution in Pakistan</b>	251
<i>Noor M. Khan</i>	
<b>Post Flash Flood Hydrological Investigation</b>	265
<i>Sarintip Tantanee and Saman Prakarnrat</i>	

<b>Flood Impact Assessment in the Surrounding Area of Suvarnabhumi Airport, Thailand</b> <i>Tawatchai Tingsanchali and D. Eng</i>	283
<b>Inundation Analysis on Road-Oriented Mesh with Digital City and Sewerage Maps</b> <i>Hiromitsu Baba and Akira Mano</i>	299
<b>Integrated Water Resources Management (IWRM) — Needs and Training for the Oceania Region</b> <i>James P. Terry, Kifle Kahsai, V. Grover and C. Mayfield</i>	313
<b>The Influence on the Water Usage Planning in the New Theoretical Agricultural System Under the Stochastic Rainfall</b> <i>Suwatana Chittaladakorn and Eakawit Jornpradit</i>	325
<b>Public Domain System Modeling in Northern Thailand</b> <i>Hansa Vathananukij</i>	341
<b>Storage Reallocation for a Multipurpose Reservoir</b> <i>Jaeung Yi</i>	353
<b>Seasonal Trend of Water Budget at Rain-Fed Paddy Field in Central-Thailand</b> <i>Daisuke Komori, Masatoshi Aoki, Wonsik Kim, Shin Miyazaki, Jaeil Cho, Samakkee Boonyawat, Panya Polson, Somnimit Pukngam, Piyapong Tongdeenok, Shinjiro Kanae, Taikan Oki and Katumi Musiake</i>	365
<b>Strategic Planning and Management of Water Resources: A Practical Approach to Integrated Water Resources Management</b> <i>Ti Le-Huu</i>	377