

CONTENTS

SECTION 1 HYDROLOGY OF ARID AND SEMI-ARID AREAS

Effects of the Length of Record on Estimates of Annual and Seasonal Precipitation <i>R. H. French</i>	3
The Sahelian Drought(s) as seen from the Rainfall Data of a Mauritanian Station <i>G. Demaree, M.S. Chadilly</i>	15
A System for Weather Based Analysis of Drought in Africa <i>J.A. Dyer</i>	25
Generation of Synthetic Rainfall Sequences of Multiple Stations Using the Analysis of Variance Model <i>V.S. Srinivasan, H.P. Gomes</i>	37
Hydrological Investigation of an Arid Area <i>A.A.S. Alfi</i>	51
Elaboration d'un Modèle de Prédiction du Transfert Hydrique sous Jachère dans les Zones Semi-arides de la Tunisie <i>H. Daghari, Ch. Laroussi, M. Maàlej and L. W. DeBacker</i>	63

SECTION 2 HYDROLOGY

Estimation of River Flood Discharges Using the Computer Program HYFA <i>M. Shahin</i>	75
A Comparison of Effective Rainfall Separation Techniques Applied to the Derivation of Catchment Average Unit Hydrographs <i>P.R. Wormleaton</i>	87
Computer Models of Catchment Runoff <i>B. Wiezik</i>	97
A Computer Model for Predicting Runoff from a Bench Terraced Field <i>V.V.D. Narayana, G. Sastry</i>	105
Oriented Computer Approaches of Normal Error Distribution <i>H.A. Hassan, R.H. Hadi</i>	117
Transformation d'Ondes de Crue dans une Retenue <i>J. Geringer</i>	131
Prediction of Cyclic Rainfall and Streamflow <i>W.A.J. Paling, D. Stephenson</i>	141

SECTION 3 STOCHASTIC HYDROLOGY

INVITED PAPER Urban Hydrology Processes and Modelling <i>J. W. Delleur</i>	159
INVITED PAPER Stochastic Methods and Reliability Analysis in Water Resources <i>B. C. Yen</i>	183
Sur un Modèle de Série Chronologique Vectorielle à Composantes Binaires en vue d'Applications en Climatologie <i>B. Essebbar, A. Le Breton</i>	199
A Method of Selecting Subset Autoregressive Time Series Models <i>G-H. Yu, Y. C. Lin</i>	219
Simulation Stochastique de Débits Moyens Mensuels dans le Cas de Rivières en Climat Aride ou Semi-Aride <i>A. Bouziane, G. de Ghellinck and Y. Zech</i>	231
A Methodology for Real-Time Flood Forecasting Using Stochastic Rainfall-Runoff Modelling <i>P.A. Troch, F.P. De Troch and J.A. Spriet</i>	243
Stochastic Modelling of the Daily Flows in the River Crati, Southern Italy <i>C. Colosimo, V.A. Copertino, G. D'Ippolito</i>	257
Regional Flood Distribution Model for Skewed Data <i>E.A. Varas, T.J. Jolley</i>	275
Extraordinary Information in Probability Estimation Method of Flood Frequency Analysis: Monte Carlo Results <i>Y.P. Zhang</i>	287