

CONTENTS

SECTION 1 PLANNING AND MANAGEMENT

INVITED PAPER

- Microcomputers for Water Resources: Data Management 3
in Africa
G.E. Stout, M. Demissie

INVITED PAPER

- Model Integration for Water Use, Quality and Supply 9
P.J. Reynolds, D.M. Tate and A.M. Kassem

- Un Modèle Sédimentologique pour le Choix du Mode de Gestion 27
d'un Ensemble de Réservoirs Hydroénergétique
L.A. Dana, C. Marche

- Optimum Reservoir System Configuration Based on Operational 41
Aspects
G.N. Paudyal, D.L. Shrestha

- A Note on Planning of Micro Hydro Projects in Remote Areas 51
S. Mittal

- Computer Methods and Models for Water Resources Management 65
S. Arlosoroff, U. Shamir

- Determining Optimum Mode of Operation for Hydroelectric 77
Power Plants System
Z. Oreskovic, M. Marasovic

- Gestion d'une Retenue par Programmation Dynamique 89
J. Bertrand, M. Rusniewski and N. Boutayeb

- River Basin Systems Planning 99
M.C. Chaturvedi

- Conception Assistée par Ordinateur des Projets Hydrauliques à 115
Buts Multiples
N. El-Jabi, S. Alghabra

- Optimal Multiobjective Operational Planning of a Water 127
Resources System
S. Soares, M.G. Andrade Filho

- Some Aspects on Modern Water Resources Planning and 135
Management of Urban Areas
G. Lindh

- Multiobjective Water Planning in the G.C.C. Region 145
R.L. de Jong

| | |
|--|-----|
| Adaptation de la Programmation Dynamique a la Gestion des Barrages a Vocation Essentiellement Agricole, Prise en Compte de la Prévision Hydrologique. Utilisation des Résultats pour L'Assistance a l'Exploitation des Ouvrages en Temps Réel <i>B. Voron</i> | 163 |
|--|-----|

SECTION 2 WATER POLLUTION

| | |
|---|-----|
| Stochastic Modelling of Dissolved Oxygen in Stream <i>K. Qaisi</i> | 173 |
| Water Pollutational Aspects and Distribution of Major and Trace Elements in Western Part of Yamuna River Basin – a Statistical Approach <i>S. Khurshid</i> | 183 |
| Ground Water Hydrochemical Model of the Jolak Basin, Iraq <i>H.A. Hassan, M.H. Al-Jabbari and M.A.M. Salih</i> | 195 |
| Effects of the Groundwater Hypothetical Salts on Electrical Conductivity and Total Dissolved Solids: An Oriented Computer Approach <i>H.A. Hassan, S.A.J. Al-Ani</i> | 213 |
| Retrieval of Chlorophyll – a Concentrations with LANDSAT TM Images – Application: Lake Tanganyika <i>P. Vanouplines</i> | 225 |
| Water Quality in River Systems Management: Application of Risk and Reliability Analysis <i>M. Benedini</i> | 237 |
| Dispersion dans les Ecosystèmes Soumis a un Forçage Périodique <i>Y. Ajdor, J. Fabre</i> | 251 |
| Modélisation Mathématique du Régime Thermique de L'Oued Sebou <i>A. Agoumi, L. Asmlal</i> | 265 |
| Evolution of Acidic Ground-Water Contamination in a Copper-Mining Area in Arizona <i>J.H. Eychaner</i> | 291 |