

CONTENTS

Asymmetric Variation of Ghyben-Herzberg Lens <i>by Daniel Wayne Urish</i>	1149
Force on Sill of Forced Jump <i>by Rangaswami Narayanan and Loizois S. Schizas</i>	1159
Low Sediment Transport Rates over Flat Beds <i>by Peter A. Mantz</i>	1173
Linear Theory Methods for Pipe Network Analysis <i>by Lewis T. Isaacs and Kevin G. Mills</i>	1191
Bayesian Frequency Analysis <i>by Wilson H. Tang</i>	1203
Connecticut River Fishways: Model Studies <i>by Dean K. White and Bruce J. Pennino</i>	1219

TECHNICAL NOTES

Proc. Paper 15516

Boundary Layers in Developing Open Channel Flow <i>by Edward Silberman</i>	1237
Reciprocal-Distance Estimate of Point Rainfall <i>by John R. Simanton and Herbert B. Osborn</i>	1242

→

This Journal is published monthly by the American Society of Civil Engineers. Publications office is at 345 East 47th Street, New York, N.Y. 10017. Address all ASCE correspondence to the Editorial and General Offices at 345 East 47th Street, New York, N.Y. 10017. Allow six weeks for change of address to become effective. Subscription price to members is \$15.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. GT, HY.

The Society is not responsible for any statement made or opinion expressed in its publications.

DISCUSSION

Proc. Paper 15512

Dispersion in Rivers as Related to Storage Zones,^a by George V. Sabol and Carl F. Nordin, Jr. (May, 1978. Prior Discussion: Mar., 1979).
by *Edward R. Holley and Yuh-Hua Tsai* 1249

Undular Hydraulic Jump, by V. Mandrup Andersen (Aug., 1978. Prior Discussion: Sept., 1979).
closure 1252

Impact of Hydrologic Uncertainties on Flood Insurance, by Leo R. Beard (Nov., 1978. Prior Discussions: June, Oct., Nov., 1979).
closure 1255

Muskingum-Cunge Method with Variable Parameters, by Victor Miguel Ponce and Vujica Yevjevich (Dec., 1978. Prior Discussions: Nov., 1979).
closure 1256

Equipment for Investigations of Fluvial Sediment, by Paul C. Benedict (Mar., 1979. Prior Discussion: Oct., 1979).
closure 1257

Hydraulic Resistance of Artificial Strip Roughness,^a by Donald W. Knight and J. Alasdair Macdonald (June, 1979. Prior Discussion: June, 1980).
by *Eric M. Valentine* 1257

Theory of Minimum Rate of Energy Dissipation,^a by Chih Ted Yang and Charles C. S. Song (July, 1979. Prior Discussion: Feb., 1980).
by *Timothy R. H. Davies* 1259
by *Gary Parker* 1260

Experiments in Longitudinal Dispersion with Dead Zones,^a by Eric M. Valentine and Ian R. Wood (Aug., 1979).
by *Charles W. Almquist and Edward R. Holley* 1262

Modeling in Design of Pumping Pits,^a by J. Paul Tullis (Sept., 1979).
by *Sukomal K. Talukder* 1266

^aDiscussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.

Flood Flow Frequency by SCS-TR-20 Computer Program,^a by
 Vaiyapuri Danushkodi (Sept., 1979. Prior Discussion: June, 1980).
by Donald R. Jackson 1267

Hydraulic Geometry of Active Gravel Rivers,^a by Gary Parker (Sept.,
 1979).
by Colin R. Thorne, Carlos V. Alonso,
and James C. Bathurst 1269

Shear-Stress Distribution in Stable Channel Bends,^a by Mamdouh A.
 Nough and Ronald D. Townsend (Oct., 1979).
by Roger LeB. Hooke 1271

INFORMATION RETRIEVAL

The key words, abstract, and reference "cards" for each article in this Journal represent part of the ASCE participation in the EJC information retrieval plan. The retrieval data are placed herein so that each can be cut out, placed on a 3 × 5 card and given an accession number for the user's file. The accession number is then entered on key word cards so that the user can subsequently match key words to choose the articles he wishes. Details of this program were given in an August, 1962 article in CIVIL ENGINEERING, reprints of which are available on request to ASCE headquarters.