

# CONTENTS, VOL. 127, PART III

Complete subject and author indexes for  
all five parts are contained in Part V.

	PAGE
INVESTIGATION ON THE CORROSIVE BEHAVIOR OF WATERS	
BY WERNER STUMM.....	1
DISCUSSION:	
By James Girand.....	20
Werner Stumm.....	30
INTERCEPTING DRAINAGE WELLS IN ARTESIAN AQUIFER	
BY DEAN F. PETERSON, JR.....	32
DISCUSSION:	
By Mahdi S. Hantush.....	39
Dean F. Peterson, Jr.....	42
METABOLISM OF ORGANIC SULFONATES BY ACTIVATED SLUDGE	
BY JAMES M. SYMONS AND LUIS A. DEL VALLE-RIVERA.....	43
METHODS OF APPLYING IRRIGATION WATER	
BY PAUL H. BERG.....	61
DISCUSSION:	
By Gregory D. Efstratiadis.....	72
Paul H. Berg.....	74
LOW PRESSURE AERATION OF WATER AND SEWAGE	
BY N. CLAES H. FISCHERSTRÖM.....	75
DISCUSSION:	
By Jerzy Gánczarczyk.....	110
N. Claes H. Fischerström.....	114
DIGITAL COMPUTERS FOR TRIAL-LOAD ANALYSIS OF ARCH DAMS	
BY L. R. SCRIVNER.....	116
DISCUSSION:	
By G. S. Sarkaria.....	127
R. P. Wengler.....	129
L. R. Scrivner.....	130
WATER BALANCE RECORDER	
BY HANS C. ASLYNG AND KNUD J. KRISTENSEN.....	132
DISCUSSION:	
By Lloyd L. Harrold.....	138
Hans C. Aslyng and Knud J. Kristensen.....	139

	PAGE
FISHERIES STATISTICS IN EVALUATING CLAIMS OF POLLUTION	
By ROGER TOLLEFSON .....	140
STUDIES FOR THE LOWER MONUMENTAL POWER PLANT	
By BENJAMIN F. SMITH.....	153
REMOVAL OF FLOATABLES FROM DIGESTED SLUDGE	
By R. J. THEROUX, C. H. LAWRANCE, AND N. B. HUME.....	172
METHOD FOR ESTIMATING CONSUMPTIVE USE OF WATER FOR AGRICULTURE	
By WENDELL C. MUNSON.....	200
DISCUSSION:	
By George H. Hargreaves.....	213
Harold D. Hafterson.....	217
Harry F. Blaney.....	218
Wendell C. Munson.....	220
MODEL AND PROTOTYPE RESEARCH ON FISH LADDERS	
By BERTON M. MACLEAN.....	221
DISCUSSION:	
By C. H. Clay.....	232
Berton M. MacLean.....	234
DESIGN OF ARCH DAMS BY TRIAL LOAD METHOD OF ANALYSIS	
By MERLIN D. COPEN.....	236
DISCUSSION:	
By Adolf A. Meyer.....	252
G. S. Sarkaria.....	254
J. A. Veltrop.....	257
Merlin D. Copen.....	260
ADHESION IN FILTERS	
By VLADIMIR MACKRLE AND SVATOPLUK MACKRLE.....	266
SHOALING OF THE LOWER HUDSON RIVER	
By CHARLES M. DUKE.....	275
RELATION OF INTAKE RATE TO LENGTH OF RUN IN SURFACE IRRIGATION	
By A. ALVIN BISHOP.....	282
DISCUSSION:	
By Lyman S. Willardson.....	288
A. Alvin Bishop.....	292
SANITARY CONSIDERATIONS OF FIVE-MILE OCEAN OUTFALL	
By CHARLES H. LAWRANCE.....	294
WEATHER MODIFICATION: A SYMPOSIUM	
FOREWORD .....	328
SEEDING OF WEST COAST WINTER STORMS	
By ROBERT D. ELLIOTT.....	329
SEEDING OF CLOUDS IN TROPICAL CLIMATES	
By WALLACE E. HOWELL.....	349

	PAGE
<b>FILTRATION USING RADIOACTIVE ALGAE</b>	
By KENNETH J. IVES.....	372
DISCUSSION:	
By Arun Kumar Deb.....	386
Kenneth J. Ives.....	389
<b>VORTEX TUBE SAND TRAP</b>	
By A. R. ROBINSON.....	391
DISCUSSION:	
By Mushtaq Ahmad.....	425
A. R. Robinson.....	432
<b>VARIABLE HEAD TECHNIQUE FOR SEEPAGE METERS</b>	
By HERMAN BOUWER.....	434
DISCUSSION:	
By Dan Zaslavsky.....	448
Herman Bouwer.....	448
<b>CHLORINATION OF MIXED SEWAGE AND STORM WATER</b>	
By THOMAS R. CAMP.....	452
DISCUSSION:	
By P. E. Seufer.....	474
Thomas R. Camp.....	474
<b>PENSTOCKS: A SYMPOSIUM</b>	
FOREWORD.....	482
<b>KEMANO PRESSURE CONDUIT</b>	
<b>ENGINEERING INVESTIGATIONS</b>	
By F. L. LAWTON AND J. G. SUTHERLAND.....	483
<b>MULTI-LAYER PENSTOCKS AND HIGH-PRESSURE WYES</b>	
By EWALD SCHMITZ.....	515
DISCUSSION:	
By Sylvester V. Williams.....	543
F. Heidinger.....	544
Carlos S. Ospina.....	545
Ewald Schmitz.....	545
<b>STRESSES ON ANCHOR BLOCKS</b>	
By ROBERT BOUCHAYER.....	546
DISCUSSION:	
By Simon Peters.....	584
Robert Bouchayer.....	590