Chapter 25

Guide to the 485 papers of the Kentucky Symposia, 1975-1985

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A simple classification is presented of the 485 papers published over the eleven year series of symposia on urban hydrology, hydraulics and sediment transport, organised by and at the University of Kentucky in Lexington. The taxonomy is based on previous work by the writer in stormwater management modelling.

25.1 Introduction

The University of Kentucky in Lexington organised an eleven year annual series of symposia related to urban hydrology, hydraulics and sediment transport. A total of 485 papers were published, excluding a few for which abstracts alone were published.

The present author and his group have been using the papers regularly in their research, and it has become evident that some papers are of high quality and ought to be better known. Thus it was decided to publish an index for the papers, oriented towards readers interested in stormwater management modelling. From the set of proceedings, the tables of contents were reformulated in compressed format as presented in the tables at the end of this chapter. Using the same general taxonomy as a previous publication (James, 1992), an enhanced system is presented in Table 25.1. The "Kentucky papers" have been classified in Table

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25.2 against these topics.

The method allows an easy entry to the set of papers for students working in stormwater management modelling, and will no doubt prove extremely useful to engineers practising in these fields.

Copies of the original proceedings are available at \$17.50 (1975, 1976, 1977) each or \$33.50 (1978-85) each from: OES Publications, College of Engineering, University of Kentucky, Lexington, KY 40506-0046 (tel. 606/257-3361).

For further information about this paper, fax the present writer at (519) 767-2770 or (519) 836-0227.

References

James, W. 1993. "Introduction to the SWMM Environment." *Journal of Water Management Modeling* R175-01. doi: 10.14796/JWMM.R175-01.

Table 25.1
Group Topics.

GROUP 1: Emerging SWMM environment

- 1.1 Model complexity
- 1.2 Limitations of wet hydrology
- 1.3 Impacts of urbanization
- 1.4 Best management practices
- 1.5 Evaluation procedure
- 1.6 Planning
- 1.7 Legal, regulations

GROUP 2: Stormwater management modelling

- 2.1 History of stormwater management, case studies
- 2.2 Brief introduction to various programs
 - 2.2.1 HSPF
 - 2.2.2 Receiving water models
 - 2.2.3 All other models
- 2.3 Managing the modelling: accuracy, disaggregation, synthesis, sensitivity, calibration, validation, interpretation

GROUP 3: The USEPA Stormwater Management Model (SWMM)

- 3.1 History
- 3.2 General concepts

GROUP 4: Data management

- 4.1 Time series management
- 4.2 Spatial data management
- 4.3 Statistics

Table 25.1: Group Topics cont...

GROUP 5: Urban hydrology

- 5.1 Meteorology
 - 5.1.1 Rain
 - 5.1.2 Snow
- 5.2 Surface runoff
- 5.3 Groundwater and infiltration
- 5.4 Pollutant buildup and washoff
 - 5.4.1 Pollutant buildup
 - 5.4.2 Pollutant wash-off
 - 5.4.3 Erosion
 - 5.4.4 Transport in overland flow
 - 5.4.5 Sedimentation
 - 5.4.6 Highways and roads
 - 5.4.7 Thermal pollution

GROUP 6: Urban hydraulics

- 6.1 Storm sewer networks, transient flows
- 6.2 Sanitary sewer hydraulics
 - 6.2.1 Sanitary sewers
 - 6.2.2 Combined sewers
- 6.3 Pumps, weirs, gates, orifices, diversion structures, outfalls
 - 6.3.1 Real time control
 - 6.3.2 Infrastructure
- 6.4 Surcharged flows
- 6.5 Channel morphology
- 6.6 Sediment and pollutant transport in sewers and channels
- 6.7 Field monitoring
- 6.8 Water distribution networks

GROUP 7: BMP's and Pollution control

- 7.1 Detention basins
- 7.2 Pollutant removal
- 7.3 Groundwater recharge
- 7.4 Porous pavement

GROUP 8: Continuous modelling**GROUP 9: The near future of stormwater management modelling**

For the list of papers in the above groups, see the following index.

Table 25.2
Index.

GROUP PAPERS

For a description of the groups see the previous table
For the titles of following papers, see the following tables

1.0 Emerging SWMM environment

1.1: K 227 620 621 836 933

1.2:

1.3: K 103 118 122 126 128 201 225 229 230 232 304 306 316 320 323 324 515
519 527 631 704 707 722 723 746 750 824 837 851 910 912 924 932 943 951
1136 1137

1.4: K 101 102 104 114 203 204 208 318 432 506 529 532 534 613 617 632 633
721 826 827 844 925 926 1020 1113 1114 1115 1118

1.5: K 207 301 303 313 315 317 424 426 429 505 513 604 715 717 907 1038 1134

1.6: K 103 317 318 432 534 542 543 729 732 743 744 745 825 843 906 954 956
957 958 1027 1028 1029 1111 1127

1.7: K 128 201 527 741 742 747 842 849 955 1012 1116 1117

2.0 Stormwater management modelling

2.1: K 202 228 302 326 327 418 428 420 445 520 524 526 530 531 533 535 616
630 731 819 820 901 909 911 942 1026 1039

2.2:

2.2.1

2.2.2

2.2.3 K 221 222 224 305 322 329 330 339 401 408 409 411 415 423 425 439
501 702 704 801 804 805 904 927 928 1120 1124 1128

2.3: K 411 412 414 427 522 603 703 905

3.0 The USEPA stormwater management model (SWMM)

3.1:

3.2: K 223 422

4.0 Data management

4.1: K 325 437 1119 1135

4.2: K 331 332 333 832 1119

4.3: K 337 438 503 510 523 528 606 725 726 1122

5.0 Urban hydrology

5.1:

5.1.1 K 226 323 407 428 504 508 607 608 610 635 802 834 902 932 1032
1033

5.1.2 K 428 516 1138

5.2: K 115 116 117 119 120 121 123 124 125 129 205 206 211 236 311 312 314
404 406 410 434 436 601 602 609 638 705 740 803 818 931 944 1018 1024
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5.3: K 826 831 850 930 1131

5.4:

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 5.4.4 K 106 537 710 724 1037
 5.4.5 K 216 219 708 1034
 5.4.6 K 623 917 940
 5.4.7 K 921

6.0 Urban hydraulics

K 235 338

6.1: K 446 447 512 521 636 821 833 838 855 852 945 1001 1002 1003 1013 1014 1112 1121

6.2:

6.2.1 K 713 748 813 929 939 1005 1006 1101 1102 1103 1104 1105 1106 1108 1109 1110

6.2.2 K 233 711 712 719 811 854 856 916 1004 1031

6.3: K 444 509 511 525 536

6.3.1 K 231 622

6.3.2 K 716 816 854 857 948 1015 1022 1023

6.4: K 313 605 718 756 853 854 938 1030

6.5: K 108 213 214 215 319 625 735 739 815 817 1021 1125

6.6: K 310 541 709 724 920 946 947

6.7: K 416 419 421 433 517 629 706 710 719 720 726 941

6.8: K 727 728 730 749 806 807 808 809 810 822 823 934 935 936 937 1007 1008 1009 1010 1107 1129 1133

7.0 BMP's and pollution control

7.1: K 110 111 131 321 402 413 507 614 615 628 634 733 734 736 737 738 751 752 753 755 812 814 839 840 841 845 846 847 848 858 859 903 908 923 949 950 951 952 1017 1019 1035 1126

7.2: K 107 109 112 113 130 217 328 335 430 431 441 529 538 544 714 828 829 922 923 1035 1036 1130 1132

7.3: K 405

7.4: K 209 611 612

8.0 Continuous modelling

K 127 210 701 835 1011 1031 1123

9.0 The near future of stormwater management modelling

K 915

University of Kentucky URBAN HYDROLOGY, HYDRAULICS
AND SEDIMENT CONTROL SYMPOSIA

K1 JULY, 1975

- K101 An Evaluation of Practical Experience in Stormwater Management. George L. Stem. pp 1-12.
- K102 Practical Alternatives in Storm Runoff Control. Gert Aron and John Borrelli. pp 13-16.
- K103 Urban Development by Resource Planning. Robert C. Bintzler and Wendell L. Scheib. pp 17-24.
- K104 Watershed Management in Montgomery County, Maryland - A Case Report. William J. Davis and Albert T. Bain. pp 25-36.
- K105 Erosion Control System for Pipeline Construction Sites. Charnng-Ning Chen, Frank Santomauro and J. Bruce Fisher. pp 37-50.
- K106 Sediment Incipient Motion. Farouk M. Abdel-Aal. pp 51-60.
- K107 Vegetation as a Sediment Filter. E.W. Tollner, B.J. Barfield and C.T. Haan. pp 61-64.
- K108 Design of Mobile Boundary Channels. Allan W. Peterson. pp 65-72.
- K109 On-Site Sediment Filtration Using Grass Strips. David T.Y.Kao, Billy J. Barfield and Austin E. Lyons Jr. pp 73-82.
- K110 Engineering Design of Detention Facilities. R. Wm. Lindley. pp 83-90.
- K111 Methods for Sizing Storm Water Detention Basins - A Designer's Evaluation. G.V.V. Rao, pp 91-100.
- K112 Design of Sediment Basins for Construction Sites. Paul C. Oscanyan. pp 101-116.
- K113 Some Aspects of Sedimentation Pond Design. J.A. Bondurant, C.E. Brockway and M.J. Brown. pp 117-122.
- K114 Some Notes on Changing Approaches to Urban Stormwater Management. Stifel W. Jens and Henry M. Reitz. pp 123-130.
- K115 The Santa Barbara Urban Hydrograph Method. James M. Stubchaer. pp 131-142.
- K116 Comparison of Methods for Developing Urban Runoff Hydrographs. C.T. Haan. pp 143-148.
- K117 Synthetic Unit Hydrograph Procedures in Urban Hydrology. John Bleek. pp 149-160.
- K118 A Model to Predict the Effects of Urbanization on Watershed Response. Hartmut Wittenberg. pp 161-168.
- K119 Flood Hydrograph Simulation for Urban Flood frequency Analysis: The Model. A. M. Lumb and L. D. James. pp 169-180.
- K120 Flood Hydrograph Simulation for Urban Flood Frequency Analysis: Application to Watershed. L.D. James and A.M. Lumb. pp 181-192
- K121 On Modelling the Runoff Process in Urban Areas. J. W. Delleur, R.A. Rao and A. Hossain. pp 193-208.
- K122 Selected Effects of Suburban Development on Runoff in South-Coastal California. Timothy J. Durbin. pp 209-218.
- K123 A Nonlinear Hydrologic Model for Calcutta Town System. M. Bandyopadhyay and B. Bose. pp 219-226.
- K124 A Distributed Approach to Kinematic Wave Modeling of Watershed Surface Runoff. Vijay P. Singh. pp 227-236.
- K125 On Overland Flow Water Routing. Ruh-Ming Li, Daryl B. Simons and Michael A. Stevens. pp 237-244.
- K126 The Effect of Large Shopping Complexes on Quality of Storm Water Runoff. H.K. Roffman, A. Roffman, B.D. McFeaters, J.R. Norris. pp 245-258.
- K127 Urban Runoff Pollution Derived from Long-Time Simulation. Wolfgang F. Geiger. pp 259-270.
- K128 Governmental Regulation of Urban Development with Respect to Storm Water Runoff. David L. Daugherty. pp 271-272.

- K129 Mini Course: Hydrograph Development for Urbanizing Areas. L. Douglas James. pp 273-284.
- K130 Mini Course: Design of Sediment Retention Basins. Charnng-Ning Chen. pp 285-298.
- K131 Mini Course: Hydraulic Design of Storm Water Detention Basin. Teh-Yu Kao. pp 299-307.

K2 JULY, 1976

- K201 Legal Problems with Increased Runoff Through Land Development. Alfred R. Pagan. pp. 1-4.
- K202 The National Weather Service Program in Urban Hydrology. Robert A. Clark. pp 5-10.
- K203 Basin-Wide Planning for Urban Stormwater Management. William L. Jorden and K. Randell Jones. pp 11-24.
- K204 The Dam Problem of Urban Hydrology. John Smiley and Charles T. Haan. pp. 25-30.
- K205 Flood Frequency Studies on Ungaged Urban Watersheds Using Remotely Sensed Data. T.J. Jackson, R.M. Ragan and R.P. Shubinski. pp 31-40.
- K206 Water Management, General Reporter's Comments. Donald E. Overton. pp 41-44. Response to Reporter's Comments. Elvidio V. Diniz. pp. 45-46.
- K207 Evaluation Procedure for Major Urban Drainage and Flood Control Projects. L.H. Botham, L. Rice and N.S. Grigg. pp 47-54.
- K208 Roof Retention of Rainfall to Limit Urban Runoff. Felix J. Rospond. pp 55-62.
- K209 Quantifying the Effects of Porous Pavements on Urban Runoff. Elvidio V. Diniz. pp 63-70.
- K210 Overflow Abatement Alternatives Selected by Combining Continuous and Single Event Simulations. W.F. Geiger, S.A. LaBella and G.C. McDonald. pp 71-82.
- K211 Estimation of the Above-Ground Runoff Hydrograph for Storm Sewer Design Purposes. P.R. Helliwell, C.H.R. Kidd and M.J. Lowing. pp 82-90.
- K212 Diminution Ratios for Planning Construction-Area Sediment Controls. Harold P. Guy. pp 91-98.
- K213 Stream Channel Morphology. Reporter's Comments. Lynn A. Brown. pp 99-102. Response to Reporter's Comments. Helen L. Fox. pp 103-104.
- K214 Channel Alteration in an Urbanizing Watershed: A Case History in Maryland. Helen L. Fox. pp 105-114.
- K215 The Effects of Urbanization on Stream Channel Morphology. Alan M. Robinson. pp 115-128.
- K216 Sedimentation, General Reporter's Comments. George R. Foster. pp 129-138. Response to Reporter's Comments. Chin Y. Kuo. pp 139-140. Response to Reporter's Comments. David C. Curtis. pp 141-142.
- K217 Sediment Routing in an In-Stream Settling Basin. Chin Y. Kao. pp 143-150
- K218 A Deterministic Urban Storm Water and Sediment Discharge Model. David C. Curtis. pp 151-162.
- K219 Sedimentation from an Established Urban Watershed. Howard S. Peavy. pp 163-170.
- K220 Land Disturbance and Urban Sediment Control in Australia. J.D. Lawson and I.C. O'Neill. pp 171-176.
- K221 Penn State Runoff Model for the Analysis of Timing of Subwatershed Response to Storms. David F. Lakatos. pp 177-186.
- K222 Use of Hydrologic Models, Reporter's Comments. Joseph A. Strahl. pp 187-188. Response to Reporter's Comments. Garry D. Cole and Jay W. Shutt. p 189 Response to Reporter's Comments. A.D. Saah and Eugene Watson. p 190 Response to Reporter's Comments. W.C. Mills, W.M. Snyder, T.K. Woody, R.B. Slack and J.D. Dean. pp 191-192.
- K223 SWMM as a Predictive Model for Runoff. Garry D. Cole and Jay W. Shutt. pp. 193-202.
- K224 Santa Clara Valley Water District Urban Hydrology Use of the Corps of Engineers Flood

- Hydrograph Package HEC-1 as a Predictive Model. A.D. Saah and Eugene Watson. pp. 203-214.
- K225 Use of a Piecewise Linear Model with Spatial Structure and Input for Evaluating Agricultural to Urban Hydrologic Impact. W.C. Mills, W.M. Snyder, T.K. Woody, R.B. Slack and J.D. Dean. pp 215-224.
- K226 Selection of a Design Storm for Use with Simulation Models. C. Abraham, T.C. Lyons and K.-W. Schulze. pp 225-238.
- K227 Comparison of the Predictive Accuracy of Models for Urban Flow and Water-Quality Processes. M.E. Jennings and H.C. Mattraw. pp 239-244.
- K228 A Case Study: Green Trails Development, Lisle, Illinois. R. William Lindley. pp. 245-256.
- K229 Ralston Creek Flooding Induced by South Branch Urbanization. Thomas E. Croley, II and Jerald R. Barnard. pp. 257-270.
- K230 Urban Flooding Response to Land Use Change. William N. Fitch, John P. Hartigan and Myron L. Iwanski. pp 271-286.
- K231 Real Time Control of Storage in a Combined Sewer System. Bruce H. Bradford. pp 287-296.
- K232 Analysis of Flows from a Semi-Arid Urban Watershed in Lubbock Texas. R.H. Ramsey, III, R.M. Gibson B.H. Bailey. pp 297-308.
- K233 An Interim Flood Control Program for a Combined Sewered Residential Area. Eric C. Pahlke and See P. Mark. pp 309-322.
- K234 Mini Course: Prediction and Control of Urban Erosion and Sedimentation. L.D. Meyer and M.A. Ports. pp 323-332.
- K235 Mini Course: Hydraulics of Urban Drainage Systems. David T.Y. Kao. pp 333-348.
- K236 Mini Course: Urban Runoff Hydrographs - Basic Principles. Charles T. Haan. pp 349-376.

K3 JULY, 1977

- K301 Evaluation and Implementation of Urban Drainage and Flood Control. Neil S. Grigg. pp 1-6
- K302 Rockland County New York: A Case History of Urban Storm Water Management. R.J. McClimans, R.S. Jonas, D. Brenner. 7-26.
- K303 Management of Urban Runoff in a Multi-jurisdictional Watershed. John P. Hartigan, Jr. and Hugo A. Bonuccili. pp 27-42
- K304 Urbanization Impact Flood Frequency Estimation. Thomas E. Croley II and Kuo-Kung Shih. pp 43-56.
- K305 Double-Cascade Model for Urbanized Catchments Without Discharge Measurements. Bernhard Anderl. pp 57-64.
- K306 Impact of Suburban Development on the Rainfall-Runoff Relationship. Jonathan R. Pawlow and Kurt Nathan. pp 65-74.
- K307 Estimating Deposition and Sediment Yield from Overland Flow Processes. W.H. Neibling and G.R. Foster. pp 75-86
- K308 Mathematical Modeling of On-Site Soil Erosion. R-Ming Li, Robert K. Simons and Larry Y. Shiao. pp 87-94.
- K309 A Simple Procedure for Estimating On-Site Soil Erosion. Daryl B. Simons, Ruh-Ming Li and Timothy J. Ward. pp 95-102.
- K310 Deposition and Scour in Sewers. Michael B. Sonnen and Richard Field. pp 103-112.
- K311 Application of Kinematic Wave Method to Predict Overland Peak Flows. Charng-Ning Chen and Roy R. Evans. pp 113-118.
- K312 Converging Overland Flow for Urban Runoff. Vijay P. Singh, Kevin L. Shelburne. pp 119-124.
- K313 A Mathematical Model of Hydraulic Transient Phenomena in Storage and Drainage

- Tunnels. Y.H. Chen & V. Yevjevich. pp 125-128.
- K314 Laboratory Study of Rainfall-Runoff Systems over Drainage Basins. E. Eskenazi. pp 129-134.
- K315 Flood Risk Evaluation and Flood Plain Delineation. Nicholas Lally. pp 135-140.
- K316 Economic Costs Associated with Increased Flood Hazard from Urban Growth. J. R. Barnard. pp 141-148.
- K317 Planning for Success. Harold A. Vance. pp 149-152.
- K318 Urban Land Use and Runoff Control Benefits Through Innovative Highway Planning - Case Study in Rochester, N.Y. Alexandra P. Wright, John D. TenHagen, pp 153-160
- K319 Evaluation of Flood Risk Factors in the Design of Highway Stream Crossings. M.T. Tseng, A.J. Knepp R.A.Schmalz. pp 161-170
- K320 Anticipated Effect of Future Urban Development on Recharge into the Coastal Groundwater Aquifer of Israel. A. Ben Zvi. pp 171-180
- K321 On-Site Multi-Functional Stormwater Detention Facilities. A Case Study. John B. Rutherford. pp 181-188.
- K322 Recorded and Simulated Runoff from an Urban Catchment Area in Metropolitan Toronto. Erik Larsen. pp. 189-202.
- K323 The Effects of Urbanization and the Determination of Mean Areal Rainfall of Thunderstorms in Georgia, U.S.A. A.U. Sorman. pp 203-208.
- K324 Analysis of the Effects of Urbanization on Runoff by the Nonlinear Functional Series Model of Rainfall-Runoff Process. A. Ramachandra Rao and R.G. Srinivasa Rao. pp 209-220.
- K325 GMDH (Group Method of Data Handling) Applied to Identification of Rainfall-Runoff Process and Prediction of Discharge. K. Torii, J. Fukuma, and M.Tanaka. pp 221-228.
- K326 A Case Study of Recreation and Flood Control in Indian Bend Wash, Scottsdale, Arizona. L. Erie and J.Y. Ueda. pp 229-232.
- K327 Flood Behavior in Limestone Basins in Georgia. Robert P. Stevens, Yann-Pyng King and Thomas E. Cadwallader. pp 233-240.
- K328 Trap Efficiency of Sediment Basins Below Construction Sites. A Practical Case Study. W.J. Davis, W.E. Bell and L.H. Williams. pp 241-246.
- K329 A Self-Healing Hydrologic Procedure for General Streamflow Forecasting. Jose A. Buil. pp 247-266.
- K330 Stormwater Modeling. David E. Overton. pp 267-274.
- K331 State-of-the-Art Applications of LANDSAT Data in Urban Hydrology. Thomas J. Jackson and Robert M. Ragan. pp 275-286.
- K332 Remote Sensing of Land Use - Pitfalls and Potential. L.E. Link and Gert Aron. pp 287-294.
- K333 Sediment Pollution and Applied Remote Sensing. Charles L. Kleeman, Jr. pp 295-301.
- K334 Sediment Yields in a Small Watershed under Suburban Development. T.V. Fusillo, G.H. Nieswand, and T.B. Shelton. pp 302-308.
- K335 The Performance of Sediment Detention Structures. A.D. Ward, C. T. Haan and B. J. Barfield. pp 309-316.
- K336 Runoff Sediment Loads from Urban Areas. C.W. Randall, T.J. Grizzard, and R.C. Hoehn. pp 317-324.
- K337 Mini Course: Urban Hydrologic Frequency Analysis. C.T. Haan. pp 325-344.
- K338 Mini Course: Hydraulics of Storm Sewer Design. Ben Chie Yen. pp 345-368.
- K339 Mini Course: HEC Computer Programs for Urban Water Handling: HEC-1, HEC-2, and STORM. Richard J. Hayes. pp 369-378.

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- K401 Computer Simulation of Storm Drainage Systems: A Case Study Based on Use of the Penn State Runoff Model. D.F. Lakatos and K.C. Wiswall. pp 1-12.

- K402 Storage Requirements for Peak Runoff Control. P.H. Bouthillier and A.W. Peterson. pp 13-18.
- K403 Quantification of Precipitation and Land Use Characteristics Influencing Urban Runoff Quality Parameters. D.M. Peterson and V. L. Gupta. pp 19-24.
- K404 The University of Minnesota Colorado Unit Hydrograph Procedure. Milan W. Allen. pp 25-30.
- K405 A Case Study of Percolation Storage. Gerry E. Higgs. pp 31-34.
- K406 Flood Warning System for a Small Town. Larry M. Younkin and Peter Dimmig. pp 35-40.
- K407 Computer Methods for Rainfall Intensity-Duration-Frequency Relationships. Glenn A. Murray and Gujar N.S. Rao. pp 41-48.
- K408 Development of Linearized Subhydrographs Urban Runoff Model. Simsek Sarikelle, Gary L. French, Jong-Song Chien. pp 49-54.
- K409 Conception of a Comprehensive Urban Drainage Simulation Program and Its Application to a Prototype Case. G. Chevereau and F. Holly. pp 55-62.
- K410 Kinematic Wave Approximation to Forested Watershed Overland Flow with Urban Hydrologic Models. M.A. Medina Jr., L.R. Mohns. pp 63-72.
- K411 Calibration and Sensitivity Analysis of the Continuous Runoff Simulation Model "Storm". J.L. Sautier and J.W. Delleur. pp 73-80.
- K412 Effects of Parameter Sensitivity and Model Structure in Urban Runoff Simulation. David F. Kibler and Gert Aron. pp 81-90.
- K413 On-Site Storm Water Retention. Robert A. Putt and Robert L. Johnson. pp 91-94.
- K414 An Optimization Technique for a Mathematical Urban Runoff Model. Chung Sang Chu and C. Edward Bowers. pp 95-102.
- K415 An Interactive Digital Watershed Simulation for Assessing Storm Water Runoff. R-M Li, K.G. Eggert and D.B. Simons. pp 103-112.
- K416 Water-Quality Monitoring in the American Urbanizing Southwest. Barney P. Popkin. pp 113-118.
- K417 An Examination of Nonpoint Pollution Export from Various Land Use Types. D.M. Griffin, Jr., T.J. Grizzard, C.W. Randall and J.P. Hartigan. pp 119-128.
- K418 Urban Storm Water Runoff in Hawaii. Reginald H.F. Young. pp 129-134.
- K419 Design of a Storm Water Quality and Quantity Monitoring System for an Urban Catchment - An Australian Case Study. A.R. Moodie, J.D. Scholes and D.G. Thompson. pp 135-142.
- K420 Mathematical Modeling of Urban Runoff Flows and Loads for an Areawide 208 Program. David B. Boggs, Louis Hajas, Rafael G. Quimpo, and Alan J. Shuckrow. pp 143-150.
- K421 Monitoring, Modeling, and Management of Nonpoint Sources in Houston, Texas. P.B. Bedient and C.B. Amandes. pp 151-158.
- K422 Using SWMM as a Design Tool at Bucyrus, Ohio. Jay W. Shutt and Garry D. Cole. pp 159-166.
- K423 Simplified Urban NPS Estimation. G.K. Young, T.R. Bondelid, D.N. Athayde. pp 167-172.
- K424 Methodology to Assess the Impact of Nonpoint-Source Urban and Rural Runoff in a 208 Study Area. (Abstract only). Frank J. Castaldi, Lial F. Tischler and C. Thomas Koch. pp 173-174.
- K425 A Coupled Runoff - Chloride Model for Urban Areas. Andrew J.H. Tay and Vijay P. Singh. pp 175-182.
- K426 Prediction and Analysis of Storm Water Pollution. Jy-Shing Wu and Robert C. Ahlert. pp 183-188.
- K427 Sensitivity of Urban Runoff Pollution Control Requirements to the Deoxygenation Rate Coefficient. U.P. Singh, R.D.G. Pyne and G.L. Tate. pp 189-192.
- K428 Trace Elements in Runoff from Rainfall and Snowmelt at Several Localities in the Denver, Colorado, Metropolitan Area. William M. Alley and Sherman R. Ellis.

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- K429 Evaluation of Storm Water Management Practices in New Residential Areas: Methodological Developments. Robert Berwick, Michael Shapiro, Jochen Kuhner and Daniel Luecke. pp 199-210.
- K430 The Effect of Storm Water Detention on Water Quality. W.J. Davis, R.H. McCuen, and G.E. Kamedulski. pp 211-218.
- K431 Preliminary Screening Procedure for Economic Storage-Treatment Trade-Offs in Storm Water Control. Paul E. Flatt and C.D.D. Howard. pp 219-228.
- K432 Systematic Planning of Urban Storm-Drainage Utilities. Stergios A. Dendrou, J.W. Delleur and J.J. Talavage. pp 229-234.
- K433 Management of Urban Runoff by Remote Sensing in South Florida. Richard E. Slyfield. pp 235-244.
- K434 A Unit Hydrograph Concept for Predicting Flood Hydrographs from Suburban Subdivisions. J. Obiukwu Duru. pp 245-252.
- K435 Quality and Quantity of Storm Water Runoff from Three Land-Use Areas, Broward County, Florida. H.C. Mattraw Jr. pp 253-258.
- K436 The Hydraulically Effective Impervious Area of Urban Basin, Broward County, Florida. Robert A. Miller. pp 259-262.
- K437 Urban Storm Water Data Management System. Broward County, Florida. L.D. Wilson, W.H. Dogle, Jr., R.A. Miller. pp 263-268.
- K438 Statistical Modeling of Urban Storm Water Processes, Broward County, Florida. R.A. Miller, H.C. M. M.E. Jennings. pp 269-274.
- K439 Deterministic Modeling of Urban Storm Water Processes, Broward County, Florida. M.E. Jennings and W.H. Doyle, Jr. pp 275-282.
- K440 Load Modulus for Urban Sediment Production. Donald E. Overton and Roger A. Minear. pp 283-288.
- K441 The Potential of Street Cleaning in Reducing Nonpoint Pollution. Robert Pitt. pp 289-302.
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