

## REFERENCES

- Abbott, M.B., Bathurst, J.C. Cunge, J.A O'Connell, P.E. and Rasmussen, J. 1986a. An introduction to the European Hydrological System - Système Hydrologique Européen, "SHE", 1: History and philosophy of a physically-based, distributed modelling system. *Journal of Hydrology*, **87** (1): 45-59.
- Abbott, M.B., Bathurst, J.C. Cunge, J.A O'Connell, P.E. and Rasmussen, J. 1986b. An Introduction to the European Hydrological System - Système Hydrologique Européen, "SHE", 2: Structure of a physically based, distributed modelling system. *Journal of Hydrology*, **87** (1): 61-77.
- Aggus L. R. and Elliot G. V., 1975. Effects of cover and food on year-class strength of largemouth bass. In: Black Bass Biology and management: (eds R. H. stroud & H. Clepper) pp. 317-22. Sport Fishing Institute, Washington, D. C.
- Albek, M., Ogutveren, U.B. and Albek, E. 2004. Hydrological modelling of Seydi Suyu watershed. *Journal of Hydrology*, **285** (1-4): 260-271.
- Arnold, J.G., Allen, P.M. and Bernhardt, G. 1993. A comprehensive surface-groundwater flow model. *Journal of Hydrology*, **142** (1-4): 47-69.
- ASTM. 2003. Standard test method for infiltration rate of soils in field using double-ring infiltrometer. D3385-03, Annual Book of ASTM Standards 04.08. American Society of Testing Materials, West Conshohocken, PA
- ASTM. 2000. Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer. D 854-00, Annual Book of ASTM Standards 04.08. American Society of Testing Materials, West Conshohocken, PA
- Bachik, A.R and Hatta, M. 1998. Groundwater potential in Telok Datuk-Olak Lempit Area, Kuala Langat, Selangor. Report No. 01/98. Minerals and Geosciences Department, Malaysia.

- Baginska, Milne-Home, B., W. and Cornish, P.S. 2003. Modelling nutrient transport in Currency Creek, NSW with AnnAGNPS and PEST. *Environmental Modelling & Software*. **18** (8-9): 801-808.
- Bahaa-eldin, E. A. R., Yusoff, I., Abdul Rahim, S., Wan Zuhairi, W.Y. and Abdul Ghani, M.R. 2008. 'Heavy metal contamination of soil beneath a waste disposal site at Dengkil, Selangor, Malaysia'. *Soil & Sediment Contamination*, **17** (5): 449-466.
- Bahaa-eldin E. A. Rahim, Wan Zuhairi, W.Y., Abdul Rahim, S. and Abdul Ghani M.R. 2003. Geo-environmental Sampling: How good is a good practice? *Bulletin of the Geological Society of Malaysia*, **46**: 443-446.
- Balland, V., Pollacco, J.A.P. and Arp, A.P. 2008. Modeling soil hydraulic properties for a wide range of soil conditions. *Ecological Modelling*, **219**, (3-4): 300-316.
- Bekoe, E. O. 2005. Application of a hydrological model in a data-poor tropical West African catchment: a case study of the Densu Basin of Ghana. Ph.D. thesis Institute of Water and Environment, Cranfield University at Silsoe.
- Bernier, P.Y., Bréda, N., Granier, A., Raulier, F. and Mathieu, F. 2002. Validation of a canopy gas exchange model and derivation of a soil water modifier for transpiration for sugar maple (*Acer saccharum* Marsh.) using sap flow density measurements, *Forest Ecology and Management*, **163**: 185–196.
- Birkeland, P.W. 1984. *Soils and Geomorphology*, Oxford University Press, New York.
- Black, C.A.1965. Methods of Soil Analysis, Part 1: Physical and mineralogical properties. *The American Society of Agronomy*. , No 9. Madison, Wisconsin, USA.
- Bodhinayake, W. and Si B. C. 2004. Near-saturated surface soil hydraulic properties under different land uses in the St Denis National Wildlife Area, Saskatchewan, Canada. *Hydrological Processes*, **18** (15): 2835-2850
- Bosch, D.D., Sheridan, J.M. Batten, H.L. and Arnold, J.G. 2004. Evaluation of the SWAT model on a coastal plain agricultural watershed. *Transactions of the ASAE*, **47** (5):1493-1506.

- Bosch, D., Theurer, F., Bingner, R., Felton, G. and Chaubey, I. 2001. Evaluation of the AnnAGNPS water quality model. In *Agricultural Non-Point Source Water Quality Models: Their Use and Application*. Southern Cooperative Series Bulletin No. **398**. Available at:  
<http://www3.bae.ncsu.edu/Regional-Bulletins/Modeling-Bulletin/bosch-annagnps-bulletin-manuscript.html#529886> (accessed January 18<sup>th</sup>, 2007).
- Bosch, J.H. 1988. The Quaternary Deposits in the coastal plains of Peninsular Malaysia. Minerals and Geoscience of Malaysia. Report # QC/1. Kuala Lumpur, Malaysia.
- Boussinesq, J. 1904. Recherches théoriques sur l'écoulement des nappes d'eau infiltrées dans le sol et sur le débit des sources, *Journal de Mathématiques Pures et Appliquées* 5me. Ser. **10**: 5–78.
- Bouwer, H. 1986. Intake rate: Cylinder infiltrometer. Pages 825-843 in: *Methods of Soil Analysis*. A. Klute, ed. ASA Monograph 9. ASA. Madison, WI.
- Brooks, K.N., Folliott, P.F. Gregersen, H.M. and Thames. J.L. 1991. *Hydrology and the Management of Watersheds*. Ames, IA: Iowa State University Press.
- Brun, S.E., and Band, L.E. 2000. Simulating runoff behavior in an urbanizing watershed. *Computers, Environment and Urban Systems*. **24** (1): 5-22.
- Castanedo, F., Patricio, M.A. and Molina J.M. 2006. Evolutionary Computation Technique Applied to HSPF Model Calibration of a Spanish watershed. E. Corchado et al. (Eds.): IDEAL 2006, LNCS 4224, pp. 216–223.
- Chow, V.T. Maidment, D.R. and Mays, L. W. 1988. *Applied Hydrology*: New York, McGraw- Hill Book Co., 572 p.
- Chow, V. T. 1959. *Open-Channel Hydraulics*. McGraw-Hill, Inc.
- Christiaens, K. and Feyen, J. 2001. Analysis of uncertainties associated with different methods to determine soil hydraulic properties and their propagation in the distributed hydrological MIKE SHE model. *Journal of Hydrology*, **246**: 63– 81.

- Chu, T.W., and Shirmohammadi, A.2004. Evaluation of the SWAT model's hydrology component in the Piedmont physiographic region of Maryland. *Transactions of the ASAE*, **4**: 1057-1073.
- Clarke R. 1993. *Water: The International Crisis*. Cambridge, MA: MIT Press.
- Connolly, R.D., Silburn, D.M. and Ciesiolka, C.A.A. 1997. Distributed parameter hydrology model (ANSWERS) applied to a range of catchment scales using rainfall simulator data. III. Application to a spatially complex catchment. *Journal of Hydrology*. **193** (1-4): 183-203.
- Costantini, E.A.C., Castelli, F., Raimondi, S. and Lorenzoni. P. 2002. Assessing soil moisture regimes with traditional and new methods. *Soil Science Society of America Journal*, **66** (6): 1889-1896.
- Crawford, N. H. and Burges, J. S. 2004. History of the Stanford watershed model. *Water Resources Impact*, **6** (2): 3-5.
- Das, S., Rudra, R.P., Gharabaghi, B., Gebremeskel, S., Goel, P.K. and Dickinson, W.T. 2008. Applicability of AnnAGNPS for Ontario conditions. *Canadian Biosystems Engineering*, **50**: 1-11.
- Demetriou, C. and Punthakey J.F. 1999. evaluating sustainable groundwater management options using the MIKE SHE integrated hydrogeological modelling package. *Environmental Modelling & Software*, **14**: 129-140.
- Department of Irrigation and Drainage Malaysia. 2000. *Urban Stormwater Management Manual for Malaysia (Manual Saliran Mesra Alam Malaysia [MASMA])*. Kuala Lumpur, Ampang, Malaysia.
- Danish Hydraulic Institute, 2007. *Working with MIKE SHE Part 1 and 2, and Technical Manual with User Guides*. Volume 1 and 2. Danish Hydraulic Institute, Denmark.
- Danish Hydraulic Institute (DHI). 2004. *MIKE SHE User Manual*. Hørsholm, Denmark: Danish Hydraulic Institute.
- Danish Hydraulic Institute (DHI). 1998. *MIKE SHE Water Movement - User Guide and Technical Reference Manual*, Edition 1.1.

- Darcy, H. 1856. *Les Fontaines Publiques de la Ville de Dijon* ("The Public Fountains of the Town of Dijon"), Dalmont, Paris.
- Dillaha, T.A., Wolfe, M.L. Shirmohammadi, A. and Byne, F.W. 2004. ANSWERS-2000. In *Agricultural Non-Point Source Water Quality Models: Their Use and Application*. Southern Cooperative Series Bulletin No. **398**. Available at: <http://www3.bae.ncsu.edu/Regional-Bulletins/Modeling-Bulletin/modeling-bulletin.pdf>.
- Dingman, S.L. 2002. *Physical Hydrology*. 2nd ed. Upper Saddle River, N.J.: Prentice Hall.
- Dow, K., O'Connor R. E., Yarnal, B., Carbone, G. J. and Christine L. J. 2007. Why worry? Community water system managers' perceptions of climate vulnerability. *Global Environmental Change*, **17**: 228–237.
- Downer, C. W. and Ogden, F. L. 2004. Appropriate vertical discretization of Richards' equation for two dimensional watershed-scale modelling, *Hydrological Processes*, **18**:1-22.
- Du, B., Arnold, J.G. Saleh, A. and Jaynes, D.B. 2005. Development and application of SWAT to landscapes with tiles and potholes. *Transactions of the ASAE*, **48** (3):1121-1133.
- Duru, O.J. and Hjelmfelt, A.T. 1994. Investigating prediction capability of HEC-1 and KINEROS kinematic wave runoff models. *Journal of Hydrology*, **157**: 87-103.
- Evers, A.J.M., R.L. Elliott, and E.W. Stevens. 1998. Integrated decision making for reservoir, irrigation, and crop management. *Agricultural Systems*. **58** (4): 529-554.
- Feldman, A.D. 1995. HEC-1 Flood Hydrograph Package. In *Computer Models of Watershed Hydrology*, 119-150. V.P. Singh, ed. Highlands Ranch, CO: Water Resources Publications.
- Feldman, A.D. 2000. *Hydrologic Modeling System HEC-HMS Technical Reference manual*. Report # CPD-74B. U.S. Army Corps of Engineers, Hydrologic Engineers Center – HEC. Davis CA.

- Flerchinger, G.N. and Cooley, K.R. 2000. A ten-year water balance of a mountainous semi-arid watershed. *Journal of Hydrology*, **237**: 86–99.
- Gebremeskel, S., Rudra, R.P. Gharabaghi, B. Das, S. Singh, A. Bai, H. and Jiang, G. 2005. Assessing the performance of various hydrological models in the Canadian Great Lakes Basin. In *Proc. Watershed management to meet water quality standards and emerging TMDL (Total Maximum Daily Load)*, 273-282, P.W. Gassmann, ed. ASAE Publication No. 701P0105. Atlanta, GA: ASAE.
- Geological Survey Department of Malaysia. 1985. Geological Map of Peninsular Malaysia. 8<sup>th</sup> ed. 1:500,000. Kuala Lumpur, Malaysia.
- Gioia, G. and Bombardelli, F.A. 2002. Scaling and Similarity in Rough Channel Flows. Online. *Physical Review Letters*, **88**, (1)/ 014501. DOI: 10.1103/PhysRevLett.88.014501
- Giupponi C. 2005. Decision Support Systems for implementing the European Water Framework Directive: The MULINO approach. *Environmental Modelling & Software*, **22**: 248-258.
- Gobbett, D.J. (1973), Upper Palaeozoic. In: Gobbett, D.J. and Hutchison C.S. (eds). *Geology of The Malay Peninsular*. Wiley Interscience, New York 61–95.
- Graham, D. 2004. Integrated groundwater and surface water modeling with MIKE SHE. *Newsletter of International Groundwater Modeling Center*, **22**: 1-5.
- Gregory, J. H., Dukes, M. D., Miller, G. L. and Jones, P. H. 2005. Analysis of double-ring infiltration techniques and development of a simple automatic water delivery system. Online. *Applied Turfgrass Science*, doi:10.1094/ATS-2005-0531-01-MG.
- Haniba, N.M., Hassan, M.N. & Ling, L. 2002. Rio+10: In the perspective of solid wastes and sewage-related issues. *Proceedings of Environmental Management International Conference: Ten Years After Rio*. Bangi: Malaysia. 100-108.
- Heatwole, C.D., Campbell, K.L. and Bottcher, A.B. 1987. Modified CREAMS hydrology model for coastal plain flat woods. *Transactions of the ASAE* **30** (4): 1014-1022.

- Hosseini pour, E. Z. 2005. MIKE SHE -An integrated surface and ground water modeling package with GIS interface. *Newsletter of International Groundwater Modeling Center*, **23** (1): 5-6.
- Hydrologic Engineering Center. 1998. HEC-1 Flood Hydrograph Package User's Manual. Report # CPD-1A. U.S. Army Corps of Engineers, Hydrologic Engineers Center – HEC. Davis CA.
- Illangasekare, T. H. 2001. MIKE SHE Code Verification and Validation for RFETS Site-wide Water Balance Model. Report prepared by Colorado School of Mines, State University of Colorado, for Kaiser-Hill Company, L.L.C.
- IPNI. 2007. Malaysian Soil Classification. International Plant Nutrition Institute. At; [http://www.ipni.net/ppiweb/seasia.nsf/87cb8a98bf72572b8525693e0053ea70/9f3583503bd3d6b448256c370024c0b4/\\$FILE/Malaysian%20Soils.pdf](http://www.ipni.net/ppiweb/seasia.nsf/87cb8a98bf72572b8525693e0053ea70/9f3583503bd3d6b448256c370024c0b4/$FILE/Malaysian%20Soils.pdf) (accessed on 23 February 2007).
- Ismail Che Mohamed. 1998. The role of groundwater in the mineral water industry. Minerals and Geoscience of Malaysia, Hydrology section. Report No. GPH 1/98. Kuala Lumpur, Malaysia.
- Jayatilaka C.J., Storm, B. and Mudgway, L.B. 1998. Simulation of water flow on irrigation bay scale with MIKESHE. *Journal of Hydrology*, **208**:108-130
- Johnson, D. S., 1968. Malayan Blackwaters. – In: Misra, R. & Gopal, B. (eds.), *Proc. Symp. Recent Adv. Trop. Ecol.* International Society of Tropical Ecology, Varanasi, India, 303-310.
- Johnson, M.S., Coon, W.F., Mehta, V.K., Steenhuis, T.S, Brooks, E.S. and Boll, J. 2003. Application of two hydrologic models with different runoff mechanisms to a hillslope dominated watershed in the northeastern US: a comparison of HSPF and SMR. *Journal of Hydrology*, **284** (1): 57-76.
- Jurukur Permata Malaysia. 2003. Spot Levels Survey for Payah Indah. Reports # JPM(SEL) 630/2003/L1 to L10 and JPM(SEL) 360/2003/N1 to N13. Jurukur Permata Malaysia, Kuala Lumpur, Malaysia.

- Kang, M.S., Park, S.W. Lee, J.J. and Yoo, K.H. 2005. Applying SWAT for TMDL programs to a small watershed containing rice paddy fields. *Agricultural Water Management*, **79** (10): 72-92.
- Khu, S-T., Madsen, H. and Di Pierro F. 2008. Incorporating multiple observations for distributed hydrologic model calibration: An approach using a multi-objective evolutionary algorithm and clustering. *Advances in Water Resources*, **31**, (10): 1387-1398.
- King, K.W., Arnold, J.G. and Bingner, R.L 1999. Comparison of Green-Ampt and Curve Number methods on Goodwin Creek watershed using SWAT. *Transactions of the ASAE*, **42** (4): 919-925.
- Knisel, W.G., and Williams. J.R. 1995. Hydrology Components of CREAMS and GLEAMS Models. In *Computer Models of Watershed Hydrology*, 1069-1114. V.P. Singh, ed. Highlands Ranch, CO: Water Resources Publications.
- Kobold, M. and susnik, M. 2000. Watershed modelling and surface runoff. *Proceedings of Internationals Symposium of Durable protection from floorings debris flow and avalanches. Protection of human habitats: strategies, concepts, control measures – Interpraevant*, **2**: 229-338. Villach, Austria. June 26-30.
- Kojiri, T. 2008. Importance and necessity of integrated river basin management. *Physics and Chemistry of the Earth*, article in press.
- Kristensen, K.J. and Jensen, S.E. 1975. A model for estimating actual evapotranspiration from potential evapotranspiration, *Nordic Hydrology*, **6**:170–188.
- Labat, D. 2006. Oscillations in land surface hydrological cycle. *Earth and Planetary Science Letters*, **242**: 143– 154.
- Ley, T.W., Stevens, R.G., Topielec, R.R. and Neibling, W.H. 1994. *Soil Water Monitoring and Measurement*. A Pacific Northwest Publication (no. PNW0475) – Washington, Oregon, Idaho; USA.
- Malaysia Wetlands. 2008.  
<http://malaysia.wetlands.org/OurWetlands/WetlandsofMalaysia/tabid/506/Default.aspx>  
 (Accessed on April 13<sup>th</sup>, 2008).



- McCauley, C.A., White D.M., Lilly, M.R. and Nyman, D.M. 2002. A comparison of hydraulic conductivities, permeabilities and infiltration rates in frozen and unfrozen soils. *Cold Regions Science Technology* **34**: 117-125.
- Merkel, W. H. 2002. Muskingum-Cunge flood routing procedure in NRCS hydrologic models. *Proceedings of the Second Federal Interagency Hydrologic Modeling Conference*. Riviera Hotel, Las Vegas, Nevada. July 28<sup>th</sup> - August 1<sup>st</sup>.
- Mertens, J., Madsen H., Feyen L., Jacques D. and Feyen J. 2004. Including prior information in the estimation of effective soil parameters in unsaturated zone modelling. *Journal of Hydrology*, **294**: 251–269.
- Minerals and Geoscience Department of Malaysia. 2002. The study on sustainable groundwater resources and environmental management for Langat Basin in Malaysia. Interim Report No. 1. Japan International Cooperation Agency (JICA). <http://www.img.gov.my/mis/arep/default.htm> (accessed on October 1<sup>st</sup>, 2005).
- Minerals and Geoscience Department of Malaysia. 2003. Fact about groundwater. Accessed at: [www.jmg.gov.my/FACTS\\_ABOUT\\_GROUNDWATER.pdf](http://www.jmg.gov.my/FACTS_ABOUT_GROUNDWATER.pdf) (21 September 2003).
- Minerals and Geoscience Department of Malaysia. 2007. Status of Groundwater Abstraction and Ground Subsidence Survey at Olak Lempit, Mukim Tanjung 12, Banting, Selangor. Report No. JMG-SWP (HG) 01/2007. Kuala Lumpur, Malaysia.
- Ministry of Natural Resources and Environment of Malaysia. 2007. Flood and drought management in Malaysia. Malaysia: Kuala Lumpur. Report prepared by Department of Irrigation and Drainage.
- Mishra, A., Singh, R. and Raghuvanshi, N.S. 2005. Development and application of an integrated optimization-simulation model for major irrigation projects. *Journal of Irrigation and Drainage Engineering*. **131** (6): 504-513.
- Mualem, Y. 1976. A new model predicting the hydraulic conductivity of unsaturated porous media. *Water Resource Research*, **12**:513-522.
- Mungai, D.N., Ong, C.K., Kiteme, B., Elkaduwa, W. and Sakthivadive, R. 2004. Lessons from two long-term hydrological studies in Kenya and Sri Lanka. *Agriculture, Ecosystems & Environment*, **104** (1):135-143.

- Muttiah, R.S., and Wurbs, R.A. 2002. Scale-dependent soil and climate variability effects on watershed water balance of the SWAT model. *Journal of Hydrology*. **256** (3-4): 264-285.
- Nakakita, E and Uyeda H.. 2003. Radar hydrology precipitation and water resources. Textbook for 12<sup>th</sup> IHP Training Course, HyARC Nagoya University and UNESCO. Nagoya and Kyoto, Japan. 111–129.
- Nash, J. E. and Sutcliffe, J. V. 1970. River flow forecasting through conceptual models part I — A discussion of principles. *Journal of Hydrology*, **10** (3): 282–290.
- Nazrul I., Wallender W. W., Mitchell J.P., Wicks S. and Howitt R. E. 2006. Performance evaluation of methods for the estimation of soil hydraulic parameters and their suitability in a hydrologic model. *Geoderma* **134**: 135-151.
- Omar, R.C., Jaafar, R. and Hassan H. 1999. Engineering geology and earthwork problem associated with highway construction in soft soil at Sg. Rasau, Dengkil, Selangor. *Bulletin of Geological Society of Malaysia*, **45**: 175-186.
- Parsons, J.E., D.L. Thomas, and R.L. Huffman. 2004. Model Summary Tables. Southern Cooperative Series Bulletin No. 398. Available at: <http://www3.bae.ncsu.edu/Regional-Bulletins/ModelingBulletin/ModelSummaryTables.html> (accessed January 10<sup>th</sup>, 2007).
- Paya Indah Wetlands, Selangor, Malaysia  
<http://www.impressions.com.my/Selangormain/Payaindah/Payaindah.htm> (accessed on September 24<sup>th</sup>, 2005).
- Penman, H.L. 1948. natural evaporation from open water, bare soil and grass. *Proceedings of Royal Society*, London, **193**: 120-146.
- Pearson, K. 1895. Mathematical contributions to the theory of evolution, II: Skew variation in homogeneous material. *Philos. Trans. Roy. Soc. London (A)* **186** 343–414. Reprinted in *Karl Pearson's Early Statistical Papers* (1956) 41–112 Cambridge Univ. Press.
- Phien-wej, N., Giao, P.H. and Nutalaya, P. 2006 Land subsidence in Bangkok, Thailand. *Engineering Geology*, **82**: 187– 201.

- Punthakey J.F., Cooke R., Somaratne, N.M. Carr, R.S. and Watson, K.K. 1993. Large-scale catchment simulation using the MIKE-SHE model: 2. Modelling the Berrigin irrigation district. In: *Environmental Management Geo-water and Engineering Aspects: Proceedings of the International Conference on Environmental Geo-water and Engineering Aspects*, 467-472.
- Ramsar. 2007a. <http://www.ramsar.org/index.html#top> (accessed on February 9<sup>th</sup>, 2007).
- Ramsar. 2007b. [http://www.ramsar.org/profile/profile\\_index.htm](http://www.ramsar.org/profile/profile_index.htm) (accessed on February 9<sup>th</sup>, 2007).
- Ramsar. 2008a. Ramsar Information Papers. Paper No. 1. [http://www.ramsar.org/index\\_about\\_ramsar.htm](http://www.ramsar.org/index_about_ramsar.htm). (accessed on April 13<sup>th</sup>, 2008b).
- Ramsar. 2008b. Ramsar Information Papers. Paper No. 5. [http://www.ramsar.org/index\\_about\\_ramsar.htm](http://www.ramsar.org/index_about_ramsar.htm). (accessed on April 13<sup>th</sup>, 2008b).
- Refsgaard, J.C. 1997. Validation and intercomparison of different updating procedures for real-time forecasting. *Nordic Hydrology*, **28**: 65-84.
- Refsgaard, J.C. and Storm, B. 1995. MIKE SHE. In: V.P. Singh, Editor, *Computer Models of Watershed Hydrology*, Water Resources Publication.
- Richards, L.A. 1931. Capillary conduction of liquids through porous medium. *Physics*, 1 (5): 318-333.
- Rogers, G. O. and DeFee, B. B. 2005. Long-term Impact of Development on a Watershed: Early Indicators of Future Problems. *Landscape and Urban Planning*, **73**: 215-233.
- Rudra, R.P., W.T. Dickinson, and G.J. Wall. 1985. Application of the CREAMS model in southern Ontario conditions. *Transactions of the ASAE*. **28** (4): 1233-1240.
- Sahoo, G.B, C. Ray, and E.H. De Carlo. 2006. Calibration and validation of a physically distributed hydrological model, MIKE SHE, to predict streamflow at high frequency in a flashy mountainous Hawaii stream. *Journal of Contaminant Hydrology*. **327**: (1-2): 94-109.

- Schröder, T.M. and Rosbjerg, D. 2004. Groundwater recharge and capillary rise in a clayey catchment: modulation by topography and the Arctic Oscillation. *Hydrology and Earth System Sciences*, **8** (6):1090-1102
- Schwab, G. O., Fangmeier, D.D., Elliot, W.J. and Frevert, R.K. 1993. *Soil and Water Conservation Engineering*. 4th ed. New York: Wiley.
- Shilling, F., Sommarstrom S., Kattelmann R., Washburn B., Florsheim J., and R. Henly. 2005. California Watershed Assessment Manual: Volume I. Davis, USA: Prepared for the California Resources Agency and the California Bay-Delta Authority <http://cwam.ucdavis.edu> (accessed on November 20<sup>th</sup>, 2007).
- Shrestha, S., Babel, M.S. Gupta, A.D. and Kazama, F. 2005. Evaluation of annualized agricultural nonpoint source model for a watershed in the Siwalik Hills of Nepal. *Environmental Modelling and Software*. **21** (7): 961-975.
- Singh, R., Refsgaard, J.C. Yde, L. Jorgensen, G.H. and Thorsen, M. 1997. Hydraulic-hydrological simulations of canal-command for irrigation water management. *Irrigation and Drainage Systems*, **11** (3): 185-213.
- Singh, R., K. Subramanian, and J.C. Refsgaard. 1999. Hydrological modelling of a small watershed using MIKE SHE for irrigation planning. *Agricultural Water Management*. **41** (3): 149-166.
- Singh, V.P. 1995. *Computer Models of Watershed Hydrology*. Rev. ed. Highlands Ranch, CO: Water Resources Publications.
- Smart Survey Consultant. 2007. The Ground Settlement Monitoring at Megasteel Factory at Banting Selangor. Survey Report: Epoch 40. Bandar Baru Selayang, Batu Caves, Selangor, Malaysia
- Smith, R. E. and Goodrich, D. C. 1996. Investigating prediction capability of HEC-1 and KINEROS kinematic wave runoff models — Comment. *Journal of Hydrology*, **179** (1-4): 151-179.
- Soil and Water Assessment Tool. 1999. SWAT User's Manual. Version 98.1. Blackland Research Center, Temple, Texas.

- Sonnenborg, T.O., Christensen B.S.B., Nyegaard P., Henriksen H.J. and Refsgaard, J.C. 2004. Transient modelling of regional groundwater flow using parameter estimates from steady-state automatic calibration. *Journal of Hydrology*, **273**: 188-204.
- Spruill, C.A., Workman, S.R. and Taraba, J.L. 2000. Simulation of daily and monthly stream discharge from small watersheds using the SWAT model. *Transactions of the ASAE*, **43** (6): 1431-1439.
- Stisen, S., Karsten H.J., Inge S. and David I.F.G. 2008. A remote sensing driven distributed hydrological model of the Senegal River basin. *Journal of Hydrology*, **354**: 131-148.
- Sun, H., Grandstaff, D. and Shagam, R. 1999. Land subsidence due to groundwater withdrawal: potential damage of subsidence and sea level rise in southern New Jersey, USA. *Environmental Geology*, **37** (4): 290-296.
- Suttles, J.B., Vellidis, G., Bosch, D.D., Lowrance, R., Sheridan, J.M. and Usery, E.L. 2003. Watershed-scale simulation of sediment and nutrient loads in Georgia coastal plain streams using the annualized AGNPS model. *Transactions of the ASAE*, **46** (5): 1325-1335.
- Thompson, J.R., Sorenson H.R., Gavin H. and Refsgaard A. 2004. Application of the coupled MIKE SHE/MIKE 11 modelling system to lowland wet grassland in southeast England. *Journal of Hydrology*, **293**: 151-179.
- Van Genuchten, M.T. 1980. A closed-form equation for predicting the hydraulic conductivity of unsaturated soils. *Soil Science Society of America Journal*, **44**: 892–898.
- Va'zquez R.F. and Feyen J. 2007. Assessment of the effects of DEM gridding on the predictions of basin runoff using MIKE SHE and a modelling resolution of 600 m. *Journal of Hydrology* 334, 73– 87
- Vazquez, R.F., Feyen, J. 2003. Effect of potential evapotranspiration estimates on effective parameters and performance of the MIKESHE-code applied to a medium size catchment. *Journal of Hydrology*. **270**: 309– 327.
- U.S. EPA, 2000. Standard operating procedures: Soil Sampling. Document No. SOP 2012-02/18/00. Environmental Protection Agency, Washington, DC.

- Ward, G. H. and Benaman, J. 1999. Model for TMDL Application In Texas watercourse: Screening and Model Review. Report # CRWR-99-7. Texas Natural Resource Conservation Commission. Austin, Texas.
- Wardah T., Abu Bakar S.H., Bardossy A., and Maznorizan M. 2008. Use of geostationary meteorological satellite images in convective rain estimation for flash-flood forecasting. *Journal of Hydrology*. **356**: 283– 298.
- Warren, V.Jr. and Gary,L.L. 2003. *Introduction to Hydrology*. 5th ed. Upper Saddle River, NJ: Prentice Hall.
- Williams, J.R. 1995. The EPIC model. In *Computer Models of Watershed Hydrology*, 909-1000. V.P. Singh, ed. Highlands Ranch, CO: Water Resources Publications.
- Williams, J. R. and Arnold, J. G. 1997. A system of erosion—sediment yield models. *Soil Technology*, **11** (1): 43-55.
- Williams, J. R. 2002. The APEX Manure Management Component. in Total Maximum Daily Load (TMDL) Environmental Regulations. Proceedings of annual American Society of Agricultural and Biological Engineers (ASABE) Conference. Fort Worth, Texas, USA. Pp. 44-51. March 11-13.
- Xevi, E., Christiaens, K., Espino, A., Sewnandan, W., Mallants, D., Sorensen, H., Feyen, J., 1997. Calibration, validation and sensitivity analysis of the MIKE-SHE model using the Neuenkirchen catchment as case study. *Water Resource Management*, **11**: 219–242.
- Yan, J. and Zhang, J. 2005. Evaluation of the MIKE SHE modelling system. <http://s1004.okstate.edu/S1004/Regional-Bulletins/Modeling-Bulletin/MIKESHEfinal.html> (accessed on September 25<sup>th</sup>, 2005).
- Young, R.A., Onstad, C.A. and. Bosch, D.D. 1995. AGNPS: An agricultural nonpoint source model. In *Computer Models of Watershed Hydrology*, 1001-1020. V.P. Singh, ed. Highlands Ranch, CO: Water Resources Publications.
- Yuan, Y., Bingner, R.L., and. Rebich, R.A. 2002. Application of AnnAGNPS for analysis of nitrogen loadings from a small agricultural watershed in the Mississippi Delta. Total maximum daily load (TMDL) environmental regulations, In *Proc. Watershed management to meet water quality standards and emerging TMDL (Total Maximum*

*Daily Load*), 268-279. P.W. Gassmann, ed. ASAE Publication No. 701P0102. Forth Worth, Texas, USA: ASAE.

Zhang, Lu, Potter, N., Hickel, K., Zhang, Y. and Shao, Q. 2008. Water balance modeling over variable time scales based on the Budyko framework – Model development and testing. *Journal of Hydrology*. **360** (1-4): 117– 131.

Zhiqiang Z., Wang S., Sun G., McNulty S.G., Zhang H., Li J., Zhang M., Klaghofer E., and Straus P. 2008. Evaluation of MIKE SHE Model for application in the Loess Plateau, China. *Journal of the American Water Resources Association* 44(5),1108-1120.

Ziegler, A. D., Giambelluca, T.W., Tran, L. T., Vana, T. T., Nullet, M. A., Fox, J., Vien, T. D., Pinthong, J., Maxwell, J. F. and Evett, S. 2004. Hydrological consequences of landscape fragmentation in mountainous northern Vietnam: evidence of accelerated overland flow generation. *Journal of Hydrology*, **287** (1-4): 124-146.