

David Huddleston, Ph.D.



Professor

Department: Civil & Environmental Engineering

DHuddleston@tntech.edu

Prescott Hall (PRSC) 422

PO Box: 5015

(931) 372-3486

Computational fluid dynamics (CFD), computational design coupling CFD with nonlinear optimization, water resources engineering, open-channel flows, fluid mechanics, applied aerodynamics

More Information

Educational Background:

Ph.D., Engineering Science, University of Tennessee 1989

M.S., Engineering Science and Mechanics, Virginia Polytechnic Institute and State University, 1978

B.S., Engineering Science, Tennessee Technological University, 1977

Recent Publications:

Huddleston, D. H., Kingery, W. L., and Liu, Z. (2006), "Refinement and Calibration of the Comprehensive Water Quality Model for St. Louis Bay Estuary," EPA Gulf of Mexico and Mississippi Department of Environmental Quality, Mississippi State University, Mississippi State, May, pp. 1-308.

Huddleston, D. H., Kingery, W. L., Kieffer, J. M., Alacron, V., and Chen, W. (2003), "Development of a Comprehensive Water Quality Model of the St. Louis Bay Estuary and Watershed," EPA Gulf of Mexico and Mississippi Department of Environmental Quality Contract #MX974070-00 Completion Report, Mississippi State University, Mississippi State, June, pp. 1-273.

Liu, Z., Kieffer, J. M., Hashim, N. B., Kingery, W. L., and Huddleston, D. H. (2005), "The Influence of Crop Fertilization Practices on Nutrient Input Parameters for Water Quality Modeling in the

Wolf River Watershed Using HSPF," International Journal of Civil and Environmental Engineering, Vol. 1, No. 1, pp. 1-19, April.

Huddleston, D. H., Alarcon, V. J., and Chen, W. (2004), "Water Distribution Network Analysis Using Excel," ASCE Journal of Hydraulic Engineering, Vol. 130, No. 10, pp. 1033-1035, October.

Huddleston, D. H. and Walski, T. M. (2003), "Using Commercial Analysis Software to Teach Hydraulic and Hydrologic Design," Computers in Education Journal, Vol. 13, No. 3, pp. 43-52, July.

Rivera, W. Zhu, J., and Huddleston, D. H. (2003), "An Efficient Parallel Algorithm with Application to Computational Fluid Dynamics," Computers and Mathematics with Applications: Numerical Methods in Physics, Chemistry and Engineering, Vol. 45, pp 165-188.