

## **CEE Refereed Journal Publications (Accepted) 2009**

- Ahamed, M.A., Tighe, S., (2009). Early Life, Long Term and Seasonal Variations of Flexible and Rigid Pavement Skid Resistance, National Academy of Sciences, Washington, D.C., Transportation Research Record No. 2084, 3-10.
- Al Hammoud, R. Soudki, K.A., Topper, T., (2009). Bond Analysis of Corroded Reinforced Concrete Beams under Monotonic and Fatigue Loads, Cement and Concrete Composites, accepted.
- Anderson, W.B., DeLoyde, J.L., Van Dyke, M.I., Huck, P.M., (2009). Influence of Design and Operating Conditions on the Removal of MS2 Bacteriophage by Pilot-scale Multistage Slow Sand Filtration. *Journal of Water Supply Research and Technology: Aqua*. 58(7):450-462.
- Atroshchenko, E., Potapenko, S., Glinka, G., (2009). Weight Function for an Elliptical Planar Crack Embedded in a Homogeneous Elastic Medium, *International Journal of Fracture*, accepted.
- Atroshchenko, E., S. Potapenko, I. Chucinovych and G. Glinka, 2009. Variational Formulation of Crack Problems in Three-Dimensional Classical Elasticity, *Mathematics and Mechanics of Solids*, accepted.
- Badawi, M., Soudki, K.A., (2009). CFRP Repair of RC Beams with Shear-Span and Full-Span Corrosion, *ASCE Journal of Composites for Construction*, accepted.
- Badawi, M., Soudki, K.A., (2009). Fatigue Behavior of RC Beams Strengthened with NSM CFRP Rods, *ASCE Journal of Composites for Construction*, 13, (5), 415-421.
- Bagheri, M., Saccomanno, F.F., Fu, L., (2009). Effective placement of dangerous goods cars in rail yard marshaling operation, *Canadian Journal of Civil Engineering*, accepted.
- Bagheri, M., Saccomanno, F.F., Chenouri, S., Fu, L., (2009). Reducing the risk of dangerous goods car derailments through effective positioning along the train, *Journal of Accident Analysis & Prevention*. Accepted.
- Belytschko, T., Gracie, R., and Ventura, G., (2009). A Review of the Extended/Generalized Finite Element Methods for Material Modelling, Modelling and Simulation in Materials Science and Engineering, 17(4), 043001.
- Bosche, F., Haas, C., Akinci, B., (2009). Experimental Results for Automated Object Retrieval from 3D Images, *ASCE Journal of Computing in Civil Engineering*, 23 (6), 311-318.
- Brodland, G.W., Yang, J., Sweny, J., (2009). Cellular Interfacial and Surface Tensions Determined from Aggregate Compression Tests Using a Finite Element Model, *HFSP Journal*, 3(4), 273-281.
- Casello, J., Nour, A., Hellinga, B., (2009). Quantifying the Impact of Transit Reliability on User Costs, *Transportation Research Record - Journal of the Transportation Research Board*, No. 2112, 136-141.
- Chamorro, A., Tighe, S., Ningyuan, L., Kazmierowski, T., (2009). Development of Distress Guidelines and Condition Rating to Improve Network Management in the Province of Ontario, National Academy of Sciences, Washington, D.C., Transportation Research Record No. 2093, 128-135.
- Chamorro, A., Tighe, S., (2009). Development of A Management Framework for Rural Roads in Developing Countries: Integrating Socio Economic Impacts, National Academy of Sciences, Washington, D.C., Transportation Research Record No. 2093, 99-110.
- Cheng, J.J., Alvarado-Contreras, J.A., Polak, M.A., Penlidis, A., (2009). Chain Entanglements and Mechanical Behaviour of High Density Polyethylene, *Journal of Engineering Materials and Technology*, in print.

- Cheng, J.J., Polak, M.A., Penlidis, A., (2009). Polymer Network Mobility and Environmental Stress Cracking Resistance of High Density Polyethylene, *Polymer-Plastics Technology and Engineering*, in print.
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- Cunto, F., Duong, D., Saccomanno, F., (2009). Comparison of Simulated Freeway Safety Performance to Observed Crashes. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2103, Transportation Research Board of the National Academies, Washington, D.C., 88-97.
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- Deng, J., Pandey, M.D., (2009). Derivation of Sample-Oriented Quantile Function using Maximum Entropy and Self-Determined Probability Weighted Moments. *Environmetrics*, In press.
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- Gracie, R., Craig, J.R., (2009). Modeling well leakage in multilayer aquifer systems using the extended finite element method, *Finite Elements in Analysis and Design*.
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