

# Research Publications 2005



Research Branch

## Faculty Engineering, Computer and Mathematical Sciences

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### ***EC&MS Faculty Administration***

#### **Journal Articles**

- Dowd PA & Pardo-Iguzquiza E 2005. Estimating the boundary surface between geologic formations from 3D seismic data using neural networks and geostatistics. *Geophysics*. 70 (1): P1-P11.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/36782>
- Pardo-Iguzquiza E; Dowd PA & Grimes DIF 2005. An automatic moving window approach for mapping meteorological data. *International Journal of Climatology*. 25 (5): 665-678.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/36781>
- Pardo-Iguzquiza E & Dowd PA 2005. Empirical maximum likelihood kriging: The general case. *Mathematical Geology*. 37 (5): 477-492.
- Kumral M & Dowd PA 2005. A simulated annealing approach to mine production scheduling. *Journal of the Operational Research Society*. 56: 922-930.
- Pardo-Iguzquiza E & Dowd PA 2005. Multiple indicator cokriging with application to optimal sampling for environmental monitoring. *Computers & Geosciences*. 31: 1-13.
- Pardo-Iguzquiza E & Dowd PA 2005. EMLK2D: a computer program for spatial estimation using empirical maximum likelihood kriging. *Computers & Geosciences*. 31 (3): 361-370.

#### **Conference Publications**

- Pardo-Iguzquiza E & Dowd PA 2005. On the automatic inference and modelling of a set of indicator covariances and cross-covariances. *The Seventh International Geostatistics Congress 'Geostatistics Banff'*, O Leuangthong, CV Deutsch (eds), 185-193. Banff, Canada.
- Dowd PA & Dare-Bryan PC 2005. Planning, designing and optimising production using geostatistical simulation. *The International Symposium on Orebody Modelling and Strategic Mine Planning: Uncertainty and Risk Management*, R Dimitrakopoulos, S Ramazan (eds), 321-337. Hyatt Regency, Perth, Western Australia.

### ***Centre for Automotive Safety Research (CASR)***

#### **Book Chapters**

- Wundersitz LN & Burns NR 2005. Identifying young driver subtypes: Relationship to risky driving and crash involvement. in L Dorn (eds) *Driver Behaviour and Training: Volume II*, 155-168, Aldershot, Hampshire, GU11 3HR, England: Ashgate Publishing Limited. ISBN 0 7546 4430 8 <http://digital.library.adelaide.edu.au/dspace/handle/2440/30253>
- RWG & McLean AJ 2005. Biomechanics of closed head injury. in PL Reilly, R Bullock (eds) *Head Injury: Pathophysiology and management*, 26-40, London: Arnold. ISBN 0-340-80724-5  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/30254>

#### **Journal Articles**

- Hutchinson TP 2005. Randomised experimentation in evaluating transport and transport safety interventions. *Traffic Engineering & Control: the international journal of traffic management and transportation*. 46 (6): 225-229.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/17701>
- Hutchinson TP 2005. Consensus versus polarisation: Measuring ordinal variability. *Australasian Journal of Market & Social Research*. 13 (1): 27-35. <http://digital.library.adelaide.edu.au/dspace/handle/2440/17702>

#### **Conference Publications**

- Anderson RWG; Kloeden CN; Hutchinson TP & McLean AJ 2005. Choice of licensing method and crashes of young drivers. *The Australasian Road Safety Research Policing Education Conference*, G Strachan (eds), 236-241. Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/28625>

- Woolley JE 2005. Recent advantages of lower speed limits in Australia. The 6th International Conference of Eastern Asia Society for Transportation Studies, K Satoh (eds), 3562-3573. Queen Sirikit National Convention Center, Bangkok, Thailand. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28626>

## ***Petroleum Engineering***

### **Journal Articles**

- Emera MK & Sarma HK 2005. Use of genetic algorithm to estimate CO<sub>2</sub>-oil minimum miscibility pressure - a key parameter in design of CO<sub>2</sub> miscible flood. *Journal of Petroleum Science and Engineering*. 46 (1-2): 37-52.
- Behrenbruch P & Biniwale S 2005. Characterisation of clastic depositional environments and rock pore structures using the Carman-Kozeny equation: Australian sedimentary basins. *Journal of Petroleum Science and Engineering*. 47 (3-4): 175-196.

### **Conference Publications**

- Lee MD; Pincombe BM & Welsh MB 2005. An empirical evaluation of models of text document similarity. The XXVII Annual Conference of the Cognitive Science Society, BG Bara, L Barsalou, M Bucciarelli (eds), CD ROM 1-CD ROM 6. Stresa, Italy. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28910>
- Priest S & Hunt SP 2005. Application of a new three-dimensional yield criterion for argillaceous rocks. The 40th US Symposium on Rock Mechanics, G Chen (eds), CD ROM 1-CD ROM 12. Anchorage, Alaska. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28911>
- Ta QD; Hunt SP & Sansour C 2005. Applying fully coupled geomechanics and fluid flow model theory to petroleum wells. The 40th US Symposium on Rock Mechanics, G Chen (eds), CD ROM 1-CD ROM 8. Anchorage, Alaska. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28912>
- Koupriantchik D; Hunt SP & Meyers AG 2005. Generic and field examples of geomechanical modelling of creep behaviour in salt diapirs towards predicting localised stress perturbations.. The 40th US Symposium on Rock Mechanics, G Chen (eds), CD ROM 1-CD ROM 8. Anchorage, Alaska. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28913>
- Camac BA; Hunt SP & Bailey WR 2005. Distinct element stress modelling for top seal appraisal in the Pyrenees-Macedon oil and gas fields, Exmouth Sub-basin, Australian North West shelf.. The 40th US Symposium on Rock Mechanics, G Chen (eds), CD ROM 1-CD ROM 12. Anchorage, Alaska. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28914>
- Ta QD & Hunt SP 2005. Consideration of the permeability and porosity relationship in a fem coupled geomechanics and fluid flow model. The International Workshop: Hanoi Geoengineering 2005, PH Giao, MT Nhuan, H Ohtsu, Y Sanada, NH Minh (eds), 331-339. Hanoi, Vietnam. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28915>
- Meyers AG; Hunt SP; Frick RA & Behr S 2005. Point load testing of drill cuttings for the determination of rock strength. The 40th US Symposium on Rock Mechanics, G Chen (eds), CD ROM 1-CD ROM 7. Anchorage, Alaska. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28916>
- Koupriantchik D; Hunt SP; Boulton P & Meyers AG 2005. Geomechanical modeling of salt diapirs: Generic shapes and a 3D salt structure from the Officer Basin, South Australia. The 11th International Conference on Computer Methods and Advances in Geomechanics, G Barla, M Barla (eds), 27-34. Torino, Italy. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28917>
- Koupriantchik D; Hunt SP & Meyers AG 2005. Geomechanical modeling of salt diapirs: A field scale analysis for a 3D salt structure from the North Sea. Eurock 2005, P Konecny (eds), 275-280. Brno, Moravia (Czech Republic). <http://digital.library.adelaide.edu.au/dspace/handle/2440/28918>

**School of Chemical Engineering****Journal Articles**

- Wang H; Pring A; Ngothai YM & O'Neill BK 2005. A low-temperature kinetic study of the exsolution of pentlandite from the monosulfide solid solution using a refined Avrami method. *Geochimica et Cosmochimica Acta*. 69 (2): 415-425. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16715>
- Ashman PJ & Mullinger P 2005. Research issues in combustion and gasification of lignite. *Fuel*. 84 (10): 1195-1205. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16716>
- Kang KY; Ahn DH; Wilkinson GT & Chun BS 2005. Extraction of lipids and cholesterol from squid oil with supercritical carbon dioxide. *Korean Journal of Chemical Engineering*. 22 (3): 399-405. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16717>
- Li ZS; Rupinski M; Zetterberg J; Alwahabi Z & Alden M 2005. Mid-infrared polarization spectroscopy of polyatomic molecules: Detection of nascent CO<sub>2</sub> and H<sub>2</sub>O in atmospheric pressure flames. *Chemical Physics Letters*. 407 (4-6): 243-248. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16718>
- Qamar NHF; Nathan GJ; Alwahabi Z & King KD 2005. The effect of global mixing on soot volume fraction: measurements in simple jet, precessing jet, and bluff body flames. *Proceedings of the Combustion Institute*. 30 (PN Part 1): 1493-1500. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16719>
- Waters EJ; Alexander G; Muhlack RA; Pocock KF; Colby CB; O'Neill BK; Hoj PB & Jones P 2005. Preventing protein haze in bottled white wine. *Australian Journal of Grape and Wine Research*. 11 (2): 215-225. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16954>
- Ballantyne TR; Ashman PJ & Mullinger P 2005. A new method for determining the conversion of low-ash coals using synthetic ash as a tracer. *Fuel*. 84 (14-15): 1980-1985. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16720>
- Parham JJ; Nathan GJ; Hill SJ & Mullinger P 2005. A modified Thring-Newby scaling criterion for confined, rapidly spreading, and unsteady jets. *Combustion Science and Technology*. 177 (8): 1421-1447. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16721>
- Stamatov V; King KD & Zhang D 2005. Explosions of methane/air mixtures induced by radiation-heated large inert particles. *Fuel*. 84 (16): 2086-2092. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16722>
- Wang H & Salveson I 2005. A review on the mineral chemistry of the non-stoichiometric iron sulphide, Fe<sub>1-x</sub>S (0<x<0.125): polymorphs, phase relations and transitions, electronic and magnetic structures. *Phase Transitions*. 78 (7-8): 547-567. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16723>
- Chun BS; Park SY; Kang KY & Wilkinson GT 2005. Extraction of lysozyme using reverse micelles and pressurized carbon dioxide. *Separation Science and Technology*. 40 (12): 2497-2508. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16724>
- Lewis DM; Brookes JD & Lambert MF 2005. Numerical models for management of *anabaena circinalis*. *Journal of Applied Phycology*. 16: 457-468. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16725>
- Wang H; Pring A; Xie Y; Ngothai YM & O'Neill BK 2005. Phase evolution and kinetics of the oxidation of monosulfide solid solution under isothermal conditions. *Thermochimica Acta*. 427: 13-25. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16726>
- Wang H 2005. Decomposition and phase transition of NiS/Ni<sub>1-x</sub>S in the temperature range 323-973 K. *Journal of Sulfur Chemistry*. 26 (3): 233-243. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16727>
- Hyde KM; Maier HR & Colby CB 2005. A distance-based uncertainty analysis approach to multi-criteria decision analysis for water resource decision making. *Journal of Environmental Management*. 77 (4): 278-290. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16728>
- Hyde KM; Maier HR & Colby CB 2005. Incorporating uncertainty in the PROMETHEE MCDA Method. *Journal of Multi-Criteria Decision Analysis*. 12 (4-5): 245-259. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16729>
- Conference Publications Amos SA; Van Heeswijck TB & Lewis DM 2005. Influence of coagulant dose and pH on surface charge of *Microcystis* - implications for coagulation. *Chemeca 2005*, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29165>

**Conference Publications**

- Amos SA; Lewis DM; Sweeney DG & Kaeding UW 2005. Optimisation of chemical dosing for microalgae removal via DAFF treatment. *Chemeca 2005*, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29166>

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- Ashman PJ; Colby CB & O'Neill BK 2005. Recent curriculum changes at the University of Adelaide - Broadening perceptions of Chemical Engineering. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29167>
  - Ashman PJ; Nguyen DT; Kosminski A & Button SJ 2005. Modelling the performance of a laboratory-scale fluidised-bed gasifier. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29168>
  - Ashman PJ; Kosminski A; Button SJ & Mullinger P 2005. Gasification of Victorian lignite in a laboratory scale fluidised bed gasifier. The 5th Asia-Pacific Conference on Combustion, K King (eds), 113-116. University of Adelaide, Adelaide, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29169>
  - Ballantyne TR; Ashman PJ & Mullinger P 2005. The effect of dewatering on the combustion behaviour of Loy Yang coal in a drop tube furnace. The 5th Asia-Pacific Conference on Combustion, K King (eds), 129-132. University of Adelaide, Adelaide, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29170>
  - Lewis DM; Porter D & Victory KJ 2005. Secondary metabolites from *Scytonema ocellatum* as selective antifungal agents to inhibit the growth of downy mildew (*Plasmopara viticola*). The 7th World Congress of Chemical Engineering, C Grant (eds), CD ROM 1-CD ROM 7. Glasgow. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29171>
  - Lloyd FK; Colby CB; O'Neill BK & Waters EJ 2005. Combined heat/ proteolytic enzyme treatment for the removal of protein haze in wine. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29172>
  - Low LL; Colby CB; O'Neill BK; Ford CM; Godden J & Gishen M 2005. Alternative technologies for tartrate stabilisation of wines: which is better?. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/28859>
  - Meeuwissen K; Lucas OW; Alwahabi Z & Linton VM 2005. Detection of sodium in flames using laser polarisation spectroscopy and the influence of beam steering. The 5th Asia-Pacific Conference on Combustion, K King (eds), 301-304. University of Adelaide, Adelaide, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29173>
  - Ngothai YM; Wang H; Pring A & O'Neill BK 2005. A review on the controversial phase relations of pyrrhotite group minerals in low temperature ranges. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29174>
  - Ooi SMP; Colby CB; Humphris K; King KD & O'Neill BK 2005. The evaluation of different electrolyte thermodynamic models for simulating the hot potassium carbonate process. The 7th World Congress of Chemical Engineering, C Grant (eds), CD ROM 1-CD ROM 9. Glasgow. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29175>
  - Patil RA; Davey KR & Daughtry BJ 2005. A new quantitative risk model of a fermenter for Friday 13th Syndrome. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 5. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29176>
  - Phua STG; Davey KR & Daughtry BJ 2005. Application of a modified Davey-Linear Arrhenius model for high pressure (600 MPa) - cold pasteurisation of vacuum packed/liquid foods. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29177>
  - Phua STG; Davey KR & Daughtry BJ 2005. Framework for modelling chemical residuals of polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans (PCDD/Fs) and polychlorinated biphenyls (PCBs) in Australian farmed southern bluefin tuna (*Thunnus maccoyii*). Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29178>
  - Qamar NHF; Nathan GJ; Alwahabi Z & King KD 2005. Effects of turbulent mixing on soot sheet dimensions. The 5th Asia-Pacific Conference on Combustion, K King (eds), 349-352. University of Adelaide, Adelaide, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29179>
  - Ridgway N; O'Neill BK & Colby CB 2005. The life cycle tribology of slurry pump gland seals. The 18th International Conference on Fluid Sealing, J Hoyes (eds), 5-21. Antwerp, Belgium. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29180>
  - Ross DP; Mc Cullough DP; Kosminski A & Ashman PJ 2005. The influence of steam on ash behaviour in fluidised bed gasification - possible implications for oxygen blown systems. The 7th World Congress of Chemical Engineering, C Grant (eds), CD ROM 1-CD ROM 12. Glasgow. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29181>
  - Smith EJ; Nathan GJ; Qamar NHF & Dally B 2005. Comparison of thermocouple temperature measurements of simple and precessing jet propane flames. The 5th Asia-Pacific Conference on Combustion, K King (eds), 89-92. University of Adelaide, Adelaide, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29182>
  - Victory KJ; Lewis DM; Thomas CJ; Kumar JM & King KD 2005. Analysis and classification of antimicrobial metabolites produced by microalgae and cyanobacteria. The 7th World Congress of Chemical Engineering, C Grant (eds), CD ROM 1-CD ROM 10. Glasgow. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29183>
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- Wang H; Pring A; Ngothai YM & O'Neill BK 2005. X-ray diffraction study of the transition Kinetics of - to -nickel monosulfide. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 5. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29184>
- Wittholz M; Bradshaw PL; Colby CB; O'Neill BK & van der Wel B 2005. A "new" desalination process: Forward osmosis. Chemeca 2005, M Hardin (eds), CD ROM 1-CD ROM 6. Hilton Brisbane, Queensland, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29185>
- Wang H; Ngothai YM; O'Neill BK & Pring A 2005. A mineralogical kinetics note: Negative activation energy or misinterpretation of Avrami method?. The 7th World Congress of Chemical Engineering, C Grant (eds), CD ROM 1-CD ROM 8. Glasgow. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29186>
- Wang H; Pring A; Ngothai YM & O'Neill BK 2005. Model-free kinetics of pentlandite exsolution from monosulfide solid solution. The 7th World Congress of Chemical Engineering, C Grant (eds), CD ROM 1-CD ROM 9. Glasgow. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29187>
- Van Eyk PJ; Wong CY; Syred N; Ung EP; Alwahabi Z; Ashman PJ & Nathan GJ 2005. Study on atomic sodium release from pulverised coal particles in a pre-mixed natural gas flame. The 4th Australian Conference on Laser Diagnostics in Fluid Mechanics and Combustion, ZT Alwahabi, BB Dally, PAM Kalt, GJ Nathan, CY Wong (eds), 133-136. McLaren's on the Lake, McLaren Vale, South Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29188>
- Birzer CH; Kalt PAM; Nathan GJ & Smith NL 2005. Planar measurements of the distribution of particles in a two-phase precessing jet flow. The 5th Asia-Pacific Conference on Combustion, K King (eds), 105-108. University of Adelaide, Adelaide, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29189>
- Birzer CH; Kalt PAM; Smith NL & Nathan GJ 2005. Particle image velocimetry in the near field of a particle-laden precessing jet flow. The 4th Australian Conference on Laser Diagnostics in Fluid Mechanics and Combustion, ZT Alwahabi, BB Dally, PAM Kalt, GJ Nathan, CY Wong (eds), 21-24. McLaren's on the Lake, McLaren Vale, South Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29190>
- Henriksen TL; Nathan GJ; Alwahabi Z; Spinti J; Eddings E & Smith PJ 2005. Soot volume fraction from extinction in JP-8 and heptane pool fires. The 4th Australian Conference on Laser Diagnostics in Fluid Mechanics and Combustion, ZT Alwahabi, BB Dally, PAM Kalt, GJ Nathan, CY Wong (eds), 61-64. McLaren's on the Lake, McLaren Vale, South Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/29191>

## **School of Civil and Environmental Engineering**

### **Book Chapters**

- Dandy GC; Bowden GJ & Maier HR 2005. Use of artificial neural networks to forecast salinity in rivers. in S Lingireddy, GM Brion (eds) Artificial neural networks in water supply engineering, 107-137, Reston, Virginia: American Society of Civil Engineers Press. ISBN 0-7844-0765-7 <http://digital.library.adelaide.edu.au/dspace/handle/2440/31079>
- Bowden GJ; Dandy GC & Maier HR 2005. Forecasting cyanobacteria (blue-green algae) using artificial neural networks. in S Lingireddy, GM Brion (eds) Artificial neural networks in water supply engineering, 71-96, Reston, Virginia: American Society of Civil Engineers Press. ISBN 0-7844-0765-7 <http://digital.library.adelaide.edu.au/dspace/handle/2440/31080>

### **Journal Articles**

- Bowden GJ; Maier HR & Dandy GC 2005. Input determination for neural network models in water resources applications. Part 2. Case study: forecasting salinity in a river. Journal of Hydrology. 301 (1-4): 93-107. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16730>
- Hassanli AM & Dandy GC 2005. Optimal layout and hydraulic design of branched networks using genetic algorithms. Applied Engineering in Agriculture. 21 (1): 55-62. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16731>
- Shahin MA; Jaksa MB & Maier HR 2005. Neural network based stochastic design charts for settlement prediction. Canadian Geotechnical Journal. 42 (1): 110-120. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16732>
- Zecchin AC; Simpson AR; Maier HR & Nixon JB 2005. Parametric study for an ant algorithm applied to water distribution system optimization. IEEE Transactions on Evolutionary Computation. 9 (2): 175-191. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16733>
- Broad D; Dandy GC & Maier HR 2005. Water distribution system optimization using metamodels. Journal of Water Resources Planning and Management-ASCE. 131 (3): 172-180. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16734>
- Wang X; Lambert MF & Simpson AR 2005. Detection and location of a partial blockage in a pipeline using damping of fluid transients. Journal of Water Resources Planning and Management-ASCE. 131 (3): 244-249. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16735>

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- Lee P; Vitkovsky JP; Lambert MF; Simpson AR & Liggett JA 2005. Leak location using the pattern of the frequency response diagram in pipelines: a numerical study. *Journal of Sound and Vibration*. 284 (3-5): 1051-1073. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16736>
  - Shahin MA & Jaksa MB 2005. Neural network prediction of pullout capacity of marquee ground anchors. *Computers and Geotechnics*. 32 (3): 153-163. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16737>
  - Dey S & Lambert MF 2005. Reynolds stress and bed shear in nonuniform unsteady open-channel flow. *Journal of Hydraulic Engineering-ASCE*. 131 (7): 610-614. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16738>
  - Jaksa MB; Goldsworthy JS; Fenton GA; Kaggwa GWS; Griffiths DV; Kuo YL & Poulos HG 2005. Towards reliable and effective site investigations. *Geotechnique*. 55 (2): 109-121. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16739>
  - Lee PJ; Vitkovsky JP; Lambert MF; Simpson AR & Liggett JA 2005. Frequency domain analysis for detecting pipeline leaks. *Journal of Hydraulic Engineering-ASCE*. 131 (7): 596-604. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16740>
  - Misiunas D; Vitkovsky JP; Olsson G; Simpson AR & Lambert MF 2005. Pipeline break detection using pressure transient monitoring. *Journal of Water Resources Planning and Management-ASCE*. 131 (4): 316-325. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16741>
  - Wang X; Lambert MF & Simpson AR 2005. Behavior of short lateral dead ends on pipeline transients: A lumped parameter model and an analytical solution. *Journal of Fluids Engineering-Transactions of the ASME*. 127 (3): 529-535. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16742>
  - Seracino R; Kerby-Eaton SE & Oehlers DJ 2005. Interface friction in the service load assessment of slab-on-girder bridge beams. *Steel & Composite Structures: an international journal*. 5 (4): 259-269. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16743>
  - Shuttleworth B; Woidt A; Paparella T; Herbig SB & Walker DJ 2005. The dynamic behaviour of a river-dominated tidal inlet, River Murray, Australia. *Estuarine Coastal and Shelf Science*. 64 (4): 645-657. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16744>
  - Griffith MC; Wu Y & Oehlers DJ 2005. Behaviour of steel plated RC columns subject to lateral loading. *Advances in Structural Engineering*. 8 (4): 333-347. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16745>
  - Nield JM; Walker DJ & Lambert MF 2005. Two-dimensional equilibrium morphological modelling of a tidal inlet: an entropy based approach. *Ocean Dynamics: theoretical, computational oceanography & monitoring*. 55 (5-6): 549-558. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16746>
  - Kaggwa GWS 2005. Probability-based diagnosis of defective geotechnical engineering structures. *Journal of Performance of Constructed Facilities*. 19 (4): 308-315. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16747>
  - Kingston G; Maier HR & Lambert MF 2005. Calibration and validation of neural networks to ensure physically plausible hydrological modeling. *Journal of Hydrology*. 314 (1-4): 158-176. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16748>
  - Oehlers DJ; Liu IST & Seracino R 2005. The gradual formation of hinges throughout reinforced concrete beams. *Mechanics Based Design of Structures and Machines: an international journal*. 33 (3-4): 373-398. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16749>
  - Lewis DM; Brookes JD & Lambert MF 2005. Numerical models for management of *anabaena circinalis*. *Journal of Applied Phycology*. 16: 457-468. <http://digital.library.adelaide.edu.au/dspace/handle/2440/16725>
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