

# Research Publications 2007

Research Branch

## Faculty of Engineering, Computer and Mathematical Sciences

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### *Australian School of Petroleum*

#### Journal Article

- Al-Harthy M; Begg SH & Bratvold RB 2007. Copulas: A new technique to model dependence in petroleum decision making. *Journal of Petroleum Science and Engineering*. 57 (1-2): 195-208.
- Al-Khalidi M; Nasr-El-Din HA; Mehta S & Al-Aamri AD 2007. Reaction of citric acid with calcite. *Chemical Engineering Science*. 62 (21): 5880-5896.
- Asadullah M; Behrenbruch P & Pham Ngoc S 2007. Reservoir simulation - upscaling, streamlines and parallel computing. *APPEA Journal*. 47 (1): 199-219.
- Behrenbruch P & Dedigama TS 2007. Classification and characterisation of crude oils based on distillation properties. *Journal of Petroleum Science and Engineering*. 57 (1-2): 166-180.
- Bon J; Sarma HK & Rodrigues T 2007. Reservoir-fluid sampling revisited - A practical perspective. *Spe Reservoir Evaluation & Engineering*. 10 (6): 589-596.
- Dholkawala ZF; Sarma HK & Kam SI 2007. Application of fractional flow theory to foams in porous media. *Journal of Petroleum Science and Engineering*. 57 (1-2): 152-165.
- Elliott TE; Welsh MB; Nettelbeck TJ & Mills V 2007. Investigating naturalistic decision making in a simulated microworld: What questions should we ask?. *Behavior Research Methods (Print Edition)*. 39 (4): 901-910.
- Emera MK & Sarma HK 2007. Prediction of CO<sub>2</sub> solubility in oil and the effects on the oil physical properties. *Energy Sources. Part A. Recovery, Utilization, and Environmental Effects*. 29 (13): 1233-1242.
- Emera MK & Sarma HK 2007. Genetic algorithm (GA)-based correlations offer more reliable prediction of minimum miscibility pressures (MMP) between reservoir oil and CO<sub>2</sub> or flue gas. *Journal of Canadian Petroleum Technology*. 46 (8): 19-25.
- Fisher JA; Waltham D; Nichols GJ; Krapf CBE & Lang SC 2007. A quantitative model for deposition of thin fluvial sand sheets. *Journal of the Geological Society*. 164 (1): 67-71.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/42054>
- Goda H; Behrenbruch P & Maier HR 2007. Alternative modelling approaches for the estimation of irreducible water saturation: Australian hydrocarbon basins. *Journal of Petroleum Science and Engineering*. 57 (1-2): 60-69.
- Lyon PJ; Boulton P; Hillis RR & Bierbrauer K 2007. Basement controls on fault development in the Penola Trough, Otway Basin, and implications for fault-bounded hydrocarbon traps. *Australian Journal of Earth Sciences*. 54 (5): 675-689.
- Mackie SI; Begg SH; Smith CS & Welsh MB 2007. Decision type - a key to realising the potential of decision making under uncertainty. *APPEA Journal*. 22 (1): 307-317. <http://digital.library.adelaide.edu.au/dspace/handle/2440/43470>
- Malhotra VK; Lee MD & Khurana AK 2007. Domain experts influence decision quality: Towards a robust method for their identification. *Journal of Petroleum Science and Engineering*. 57 (1-2): 181-194.
- Nelson EJ; Chipperfield ST; Hillis RR; Gilbert JD & McGowen J 2007. Using geological information to optimize fracture stimulation practices in the Cooper Basin, Australia. *Petroleum Geoscience*. 13 (1): 3-16.
- Nelson EJ; Chipperfield ST; Hillis RR; Gilbert JD; McGowen J & Mildren SD 2007. The relationship between closure pressures from fluid injection tests and the minimum principal stress in strong rocks. *International Journal of Rock Mechanics and Mining Sciences*. 44 (5): 787-801.
- Pattison SAJ; Ainsworth RB & Hoffman TA 2007. Evidence of across-shelf transport of fine-grained sediments: Turbidite-filled shelf channels in the Campanian Aberdeen member, Book Cliffs, Utah, USA. *Sedimentology*. 54 (5): 1033-1063.
- Tingay MRP; Hillis RR; Swarbrick RE; Morley CK & Damit AR 2007. 'Vertically transferred' overpressures in Brunei: Evidence for a new mechanism for the formation of high-magnitude overpressure. *Geology*. 35 (11): 1023-1026.
- Werner M & Lambert MF 2007. Comparison of modelling approaches used in practical flood extent modelling. *Journal of Hydraulic Research*. 45 (2): 202-215.

### Conference Publication Paper

- Becis AK; Sarma HK & Setiadi B 2007. Bugs for Oil? Potential of MEOR in Selected Australian Reservoirs. European Symposium on Improved Oil Recovery (including a CO2 Flooding session) (14<sup>th</sup> : 2007 : Cairo, Egypt), W Schulte (eds), 1-9. Cairo, Egypt. <http://digital.library.adelaide.edu.au/dspace/handle/2440/45207>
- Begg SH & Smit N 2007. Sensitivity of project economics to uncertainty in type and parameters of oil price models. SPE Annual Technical Conference and Exhibition 2007, ATCE, - (eds), 3814-3823. Anaheim, CA. <http://digital.library.adelaide.edu.au/dspace/handle/2440/44840>
- Morelli CP; Hunt SP & Boulton P 2007. Analysis of 2D distinct element models of the Cooper Basin, Australia. 11<sup>th</sup> Congress of the International Society for Rock Mechanics, L Ribeiro e Sousa (eds), 1217-1220. Lisbon, Portugal. <http://digital.library.adelaide.edu.au/dspace/handle/2440/47215>
- Neubauer M; Hillis RR; King RC & Reynolds SD 2007. The contemporary stress field of the offshore Carnarvon Basin, North West Shelf, Western Australia. 1<sup>st</sup> Canada - US Rock Mechanics Symposium, Dr Doug Stead (eds), 1-7. Vancouver, Canada. <http://digital.library.adelaide.edu.au/dspace/handle/2440/45157>
- Welsh MB & Navarro DJ 2007. Seeing is believing: Priors, trust, and base rate neglect. CogSci 2007, D.S. McNamara & J. G. Trafton (eds), 701-706. Nashville, USA. <http://digital.library.adelaide.edu.au/dspace/handle/2440/41190>
- Welsh MB; Begg SH & Bratvold RB 2007. Efficacy of bias awareness in debiasing oil and gas judgments. CogSci 2007, D. S. McNamara & J. G. Trafton (eds), 1647-1652. Nashville, USA. <http://digital.library.adelaide.edu.au/dspace/handle/2440/41191>

### *Centre for Automotive Safety Research*

#### Journal Article

- Baldock MRJ; Mathias JL; McLean AJ & Berndt A 2007. Visual attention as a predictor of on-road driving performance of older drivers. Australian Journal of Psychology. 59 (3): 159-168.
- Hutchinson TP 2007. Free-response operator characteristic models for visual search. Physics in Medicine and Biology. 52 (10): L1-L3.
- Hutchinson TP 2007. Concerns about methodology used in real-world experiments on transport and transport safety. Journal of Transportation Engineering-ASCE. 133 (1): 30-38.
- Hutchinson TP 2007. How to find multiple systems underlying a two-way table of 0's and 1's, with applications to cognitive impairments and medical laboratory science. Journal of Data Science. 5 (2): 335-356. <http://digital.library.adelaide.edu.au/dspace/handle/2440/39552>
- Hutchinson TP & Meier AJ 2007. Evidence-based anything: Priorities for librarians. The Electronic Journal of Academic and Special Librarianship. 8 (2): 1-8. <http://digital.library.adelaide.edu.au/dspace/handle/2440/39554>
- Hutchinson TP; Kloeden CN & Long AD 2007. Adult pedal cycle casualties in South Australia. Transport Engineering in Australia. 11 (1): 1-11. <http://digital.library.adelaide.edu.au/dspace/handle/2440/43944>

#### Conference Publication Paper

- Anderson RWG; Hutchinson TP & Edwards S 2007. Using child age or weight in selecting type of in-vehicle restraint: Implications for promotion and design. 51<sup>st</sup> Annual Proceedings of the AAAM, - (eds), 180-195. Melbourne, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/39695>
- Hutchinson TP; Kloeden CN & Wundersitz LN 2007. South Australia's Driver Intervention Program: Personality characteristics of participants and their subsequent crash and offence experience. Australian Road Safety Research Policing and Education Conference 2007, William Gibbons (eds), 1-18. Melbourne, Australia.
- Kloeden CN & Hutchinson TP 2007. Follow-up of subsequent crash and offence records of offending drivers who either did or did not attend an Intervention program. 30<sup>th</sup> Australasian Transport Research Forum, A/Prof Geoff Rose (eds), 1-10. Melbourne, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/45039>
- Kloeden CN; Woolley JE & McLean AJ 2007. A follow-up evaluation of the 50km/h Default Urban Speed Limit in South Australia. Australian Road Safety Research Policing and Education Conference 2007, William Gibbons (eds), 1-12. Melbourne, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/45040>
- Ponte G; Anderson RWG & Searson DJ 2007. A comparison of the pedestrian passive safety performance of the new vehicle fleet in Australia, France and the United Kingdom. Australian Road Safety Research Policing and Education Conference 2007, William Gibbons (eds), 1-10. Melbourne, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/45041>

- Zhang K; Woolley JE & Stazic B 2007. An effective tool for advanced traveller's information systems development. State of Australian Cities National Conference 2007, Professor Steve Hamnett (eds), 1-10. Adelaide, Australia.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/45038>

### ***ECMS Faculty Administration***

#### **Book Chapter**

- Mardia KV; Walder AN; Xu C; Dowd PA; Fowell RJ; Nyirongo VB & Kent JT 2007. A Line Finding Assignment Problem and Rock Fracture Modelling. in (eds) Bayesian Statistics and Its Applications, 319-330, United Kingdom: Anamaya Publishers. ISBN 1-905740-00-X <http://digital.library.adelaide.edu.au/dspace/handle/2440/45952>

#### **Journal Article**

- Dowd PA; Xu C; Mardia KV & Fowell RJ 2007. A Comparison of Methods for the Stochastic Simulation of Rock Fractures. *Mathematical Geology*. 39 (7): 697-714.
- Liu C; Chen C & Jaksza MB 2007. Seepage properties of a single rock fracture subjected to triaxial stresses. *Progress in Natural Science*. 17 (12): 1482-1486.
- Mardia KV; Nyirongo VB; Walder AN; Xu C; Dowd PA; Fowell RJ & Kent JT 2007. Markov Chain Monte Carlo Implementation of Rock Fracture Modelling. *Mathematical Geology*. 39 (4): 355-381.
- Svistounov A; Kestell CD; Adams KEM & Munday KMM 2007. Effects of medical device legislation on innovation within Australian manufacturing companies. *Innovation: Management, Policy & Practice*. 9 (3-4): 343-350.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/44914>
- Xu C; Dowd PA; Mardia KV; Fowell RJ & Taylor CC 2007. Simulating correlated marked-point processes. *Journal of Applied Statistics*. 34 (9): 1125-1134.

### ***Entrepreneurship, Commercialisation and Innovation Centre***

#### **Journal Article**

- Lindsay NJ; Lindsay WA; Jordaan AJ & Mapunda G 2007. Indigenous nascent entrepreneur self-efficacy and perceived individual success. *International Journal of Entrepreneurship and Small Business*. 4 (5): 605-619.
- List DH 2007. Scenario network mapping. *Journal of Futures Studies*. 11 (4): 77-96.

#### **Conference Publication Paper**

- Balan P & Lindsay NJ 2007. Developing innovation capability measures for the services sector: An exploratory study. *Regional Frontiers of Entrepreneurship Research 2007*, L Murray Gillin (eds), 305-317. Brisbane, Australia.
- Lindsay WA; Lindsay NJ & Jordaan AJ 2007. Investigating the values - entrepreneurial attitude - opportunity recognition relationship in nascent entrepreneurs. *Regional Frontiers of Entrepreneurship Research 2007*, L Murray Gillin (eds), 562-575. Brisbane, Australia.

### ***School of Chemical Engineering***

#### **Journal Article**

- Alwahabi Z; Zetterberg J; Li ZS & Alden M 2007. Measurements of collisional broadening coefficients by infrared polarization spectroscopy. *Applied Spectroscopy*. 61 (4): 424-427.
- Alwahabi Z; Zetterberg J; Li ZS & Alden M 2007. High resolution polarization spectroscopy and laser induced fluorescence of CO<sub>2</sub> around 2  $\mu$  m. *European Physical Journal D*. 42 (1): 41-47.
- Colby CB; Low LL; Godden J; Gishen M & O'Neill BK 2007. Process engineering developments in wine production: Alternative technologies for tartrate stabilisation. *Australian Journal of Grape and Wine Research*. 2007: 29-33.
- Cozzolino D; Liu L; Cynkar WU; Damberg RG; Janik LJ; Colby CB & Gishen M 2007. Effect of temperature variation on the visible and near infrared spectra of wine and the consequences on the partial least square calibrations developed to measure chemical composition. *Analytica Chimica Acta*. 588 (2): 224-230.
- Davidson MR; Nguyen QD & Ronningsen HP 2007. Restart model for a multi-plug gelled waxy oil pipeline. *Journal of Petroleum Science and Engineering*. 59 (1-2): 1-16.
- De Kee D; Kim YD & Nguyen QD 2007. Measuring rheological properties using a slotted plate device. *Korea-Australia Rheology Journal*. 19 (2): 75-80.

- He F; Wang HC & Dai Y 2007. Application of Fe<sub>2</sub>O<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> Composite Particles as Oxygen Carrier of Chemical Looping Combustion. *Journal of Natural Gas Chemistry*. 16 (2): 155-161.
- Huang Y; Bi J; Zhang Y; Zhou W; Li Y; Zhao L & Su Z 2007. A highly efficient integrated chromatographic procedure for the purification of recombinant hepatitis B surface antigen from *Hansenula polymorpha*. *Protein Expression and Purification*. 56 (2): 301-310.
- Liang X; Yang Y; Zhu C; Yuan S; Chen G; Pring A & Xia F 2007. Luminescence properties of Tb<sup>3+</sup>-Sm<sup>3+</sup> codoped glasses for white light emitting diodes. *Applied Physics Letters*. 91 (9): 091104-01-091104-03.
- Lucas OW; Alwahabi Z; Linton VM & Meeuwissen K 2007. Laser diagnostics of welding plasma by polarization spectroscopy. *Applied Spectroscopy*. 61 (5): 565-569.
- Lucas OW; Linton VM & Alwahabi Z 2007. Laser scattering for particulate fume measurement. *Science and Technology of Welding and Joining*. 12 (2): 115-119. <http://digital.library.adelaide.edu.au/dspace/handle/2440/42961>
- Muhlack RA; Waters EJ; Lim A; O'Neill BK & Colby CB 2007. An alternative method for purification of a major thaumatin-like grape protein (VVTL1) responsible for haze formation in white wine. *Asia-Pacific Journal of Chemical Engineering*. 2 (1): 70-74.
- Nordestgaard SJ; Chuan YP; O'Neill BK; Waters EJ; Deans L; Policki P & Colby CB 2007. In-line dosing of white wine for bentonite fining with centrifugal clarification. *American Journal of Enology and Viticulture*. 58 (2): 283-285.
- Phua STG & Davey KR 2007. Predictive modelling of high pressure (<= 700 MPa)-cold pasteurisation (<= 25 degrees C) of *Escherichia coli*, *Yersinia enterocolitica* and *Listeria monocytogenes* in three liquid foods. *Chemical Engineering and Processing*. 46 (5 Sp. Iss): 458-464.
- Phua STG; Davey KR & Daughtry BJ 2007. A new risk framework for predicting chemical residue(s) - Preliminary research for PCBs and PCDD/Fs in farmed Australian Southern Bluefin Tuna (*Thunnus maccoyii*). *Chemical Engineering and Processing*. 46 (5 Sp. Iss): 491-496.
- Riese M; Kelso RM; Nathan GJ & Mullinger P 2007. Investigation of a combustion driven oscillation in a refinery flare - Part B: Visualisation of a periodic flow instability in a bifurcating duct following a contraction. *Experimental Thermal and Fluid Science*. 31 (8): 1091-1101.
- Ross D; Noda R; Horio M; Kosminski A; Ashman PJ & Mullinger P 2007. Axial gas profiles in a bubbling fluidised bed biomass gasifier. *Fuel*. 86 (10-11): 1417-1429.
- Stamatova L; King KD; Alwahabi Z; Nathan GJ & Stamatov V 2007. A Mie scattering investigation of the effect of strain rate on soot formation in precessing jet flames. *Flow Turbulence and Combustion*. 76 (3): 279-289. <http://digital.library.adelaide.edu.au/dspace/handle/2440/41916>
- Thierry B; Majewski PJ; Ngothai YM & Shi Y 2007. Preparation of monodisperse functionalised superparamagnetic nanoparticles. *International Journal of Nanotechnology*. 4 (5): 523-530.
- Wang H; Ho LSW; Lewis DM; Brookes JD & Newcombe G 2007. Discriminating and assessing adsorption and biodegradation removal mechanisms during granular activated carbon filtration of microcystin toxins. *Water Research*. 41 (18): 4262-4270.
- Waters EJ; Pocock KF; Nordestgaard SJ; O'Neill BK & Colby CB 2007. Protein haze in white wines: New solutions to an old problem. *Australian Journal of Grape and Wine Research*. 2007: 27-28.
- Xia F; Chen G; Pring A; Brugger J; Ngothai YM; O'Neill BK; Colby CB; Tenailleau C; Wang H & Yang Y 2007. Kinetics and mechanism of hydrothermal alteration from pentlandite to violarite. *Acta Geologica Sinica-English Edition*. 81 (10): 1378-1390. <http://digital.library.adelaide.edu.au/dspace/handle/2440/41779>
- Xia F; Zhou J; Pring A; Ngothai YM; O'Neill BK; Brugger J; Chen G & Colby CB 2007. The role of pyrrhotite (Fe<sub>7</sub>S<sub>8</sub>) and the sample texture in the hydrothermal transformation of pentlandite ((Fe,Ni)<sub>9</sub>S<sub>8</sub>) to violarite ((Ni,Fe)<sub>3</sub>S<sub>4</sub>). *Reaction Kinetics and Catalysis Letters*. 92 (2): 257-266.
- Youn H; Roh M; Weber A; Wilkinson GT & Chun BS 2007. Solubility of astaxanthin in supercritical carbon dioxide. *Korean Journal of Chemical Engineering*. 24 (5): 831-834.
- Zhang Z; Jin B & Kelly JM 2007. Production of lactic acid from renewable materials by *Rhizopus* fungi. *Biochemical Engineering Journal*. 35 (3): 251-263.
- Zhang Z; Jin B & Kelly JM 2007. Effects of cultivation parameters on the morphology of *Rhizopus arrhizus* and the lactic acid production in a bubble column reactor. *Engineering in Life Sciences*. 7 (5): 490-496.

#### Conference Publication Paper

- Alwahabi Z; Reppel J; Nathan GJ; Chan QN & King KD 2007. Structure of precessing jet methane flames from planar hydroxyl radical distributions. *Australian Combustion Symposium*, Assaad Masri (eds), 38-41. Sydney, Australia.

- Low LL; Colby CB; O'Neill BK; Ford CM; Godden J & Gishen M 2007. Field testing of nanofiltration for tartrate stabilisation of wine at Berri Estates Winery. CHEMECA 2007, Martin Rhodes (eds), 1620-1628. Melbourne, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/44921>
- Nordestgaard SJ; Colby CB; O'Neill BK & Waters EJ 2007. Measurement of wine proteins by size exclusion HPLC. CHEMECA 2007, Martin Rhodes (eds), 1154-1164. Melbourne, Australia.
- Qamar NHF; Alwahabi Z; Chan QN; Nathan GJ & Roekaerts D 2007. Measurement of soot volume fraction in TNF Delft flame. Australian Combustion Symposium, Assaad R Masri (eds), 42-45. Sydney, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/43198>
- Roberts MD; King KD; Lewis DM & Desai DKS 2007. Rigorous screening of a cyanobacterium for production of PHB in a closed photo-bioreactor. CHEMECA 2007, Martin Rhodes (eds), 231-240. Melbourne, Australia.
- Saw WL; Hupa MM; Ashman PJ; Nathan GJ; Forssen M & Alwahabi Z 2007. Insight into the fate of atomic sodium from black liquor combustion in a flat flame using equilibrium calculations. Australian Combustion Symposium 2007, Assaad R Masri, Karina Sendt, Peter F Nelson, Pavel Yaroshchyk (eds), 118-121. Sydney, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/47243>
- Saw WL; Nathan GJ; Ashman PJ; Alwahabi Z; Forssen M & Hupa MM 2007. Assessment of the release of sodium from a burning liquor droplet using planar laser-induced fluorescence (PLIF) and smelt analysis. 2007 International Chemical Recovery Conference, Andrew Jones (eds), 97-100. Quebec City, Canada.
- Shim SH; Dally B; Ashman PJ; Szego GG & Craig RA 2007. Sawdust burning under MILD combustion conditions. Australian Combustion Symposium 2007, Assaad R Masri, Karina Sendt, Peter F Nelson, Pavel Yaroshchyk (eds), 94-97. Sydney, Australia.
- To D; Mueller T; Colby CB & O'Neill BK 2007. CFD simulation of UV disinfection reactors: Effect of baffling on UV dose distribution. CHEMECA 2007, Martin Rhodes (eds), 1538-1547. Melbourne, Australia.
- Van Eyk PJ; Ashman PJ; Alwahabi Z & Nathan GJ 2007. Measurement of atomic Na released from a coal particle using quantitative planar laser induced fluorescence. Australian Combustion Symposium 2007, Assaad R Masri, Karina Sendt, Peter F Nelson, Pavel Yaroshchyk (eds), 114-117. Sydney, Australia. <http://digital.library.adelaide.edu.au/dspace/handle/2440/46048>
- Victory KJ; Lewis DM; Thomas CJ & King KD 2007. Isolation and analysis of pharmacologically-active compounds of *Microcystis flos-aquae*. CHEMECA 2007, Martin Rhodes (eds), 79-85. Melbourne, Australia.
- Xia F; Pring A; Ngothai YM; O'Neill BK; Brugger J; Chen G & Colby CB 2007. The mechanism of pentlandite oxidation in the temperature range 530-600 degrees C. CHEMECA 2007, Martin Rhodes (eds), 1846-1854. Melbourne, Australia.
- Xia F; Pring A; Ngothai YM; O'Neill BK; Brugger J; Chen G & Colby CB 2007. The catalytic role of pyrrhotite in hydrothermal alteration of pentlandite to violarite. CHEMECA 2007, Martin Rhodes (eds), 1699-1705. Melbourne, Australia.
- Xia F; Pring A; Ngothai YM; O'Neill BK; Brugger J; Chen G & Colby CB 2007. Hydrothermal synthesis of FeNi<sub>2</sub>S<sub>4</sub>, a thiospinel. CHEMECA 2007, Martin Rhodes (eds), 1306-1312. Melbourne, Australia.
- Xia F; Pring A; Ngothai YM; O'Neill BK; Brugger J; Chen G & Colby CB 2007. The kinetics of pentlandite oxidation in the temperature range 530-600 degrees C. CHEMECA 2007, Martin Rhodes (eds), 1313-1320. Melbourne, Australia.

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

#### **Book**

- Dandy GC; Walker DJ; Daniell TM & Warner RF 2007. Planning and design of engineering systems. Taylor & Francis. ISBN 978-0-415-40551-5 <http://digital.library.adelaide.edu.au/dspace/handle/2440/45663>
- Warner RF; Foster SJ & Kilpatrick A 2007. Reinforced concrete basics - Analysis and design of reinforced concrete structures. Pearson Education Limited. ISBN 978-0-7339-8869-1 <http://digital.library.adelaide.edu.au/dspace/handle/2440/45664>

#### **Book Chapter**

- Daniell KA; Foley BA; Kingsborough AB; Maier HR; Malovka DJ & Sommerville HC 2007. The AUSTIME Methodology: Quantifiable Sustainability Assessment Coupled with Multi-agent Simulation. in (eds) Sustainable Urban Development Volume 2: The Environmental Assessment Methods, 375-411, Abingdon, Oxon: Routledge. ISBN 0-415-32216-2 <http://digital.library.adelaide.edu.au/dspace/handle/2440/45992>
- Foong WK; Maier HR & Simpson AR 2007. Power Plant Maintenance Scheduling Using Ant Colony Optimization. in (eds) Swarm Intelligence: Focus on Ant and Particle Swarm Optimization, 289-320, Vienna, Austria: I-Tech Education & Publishing. ISBN 978-3-902613-09-7 <http://digital.library.adelaide.edu.au/dspace/handle/2440/45994>

- Zecchin AC; Maier HR & Simpson AR 2007. Case Study Based Convergence Behaviour Analysis of ACO Applied to Optimal Design of Water Distribution Systems. in (eds) Swarm Intelligence: Focus on Ant and Particle Swarm Optimization, 419-446, Vienna, Austria: I-Tech Education & Publishing. ISBN 978-3-902613-09-7  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/45993>

#### Journal Article

- Chok YH; Jaksa MB; Griffiths DV; Fenton GA & Kaggwa GWS 2007. A parametric study on reliability of spatially random cohesive slopes. *Australian Geomechanics*. 42 (2): 79-85.
- Cordery I; Weeks B; Loy A; Daniell TM; Knee R; Minchin S & Wilson D 2007. Water resources data collection and water accounting. *Australian Journal of Water Resources*. 11 (2): 257-264.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/47244>
- Dowd PA; Xu C; Mardia KV & Fowell RJ 2007. A Comparison of Methods for the Stochastic Simulation of Rock Fractures. *Mathematical Geology*. 39 (7): 697-714.
- Goda H; Behrenbruch P & Maier HR 2007. Alternative modelling approaches for the estimation of irreducible water saturation: Australian hydrocarbon basins. *Journal of Petroleum Science and Engineering*. 57 (1-2): 60-69.
- Goldsworthy JS; Jaksa MB; Fenton GA; Kaggwa GWS; Griffiths DV & Poulos HG 2007. Effect of sample location on the reliability based design of pad foundations. *Georisk*. 1 (3): 155-166.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/44113>
- Griffith MC & Vaculik J 2007. Out-of-plane flexural strength of unreinforced clay brick masonry walls. *The Masonry Society Journal*. Sept: 53-68. <http://digital.library.adelaide.edu.au/dspace/handle/2440/46050>
- Griffith MC; Vaculik J; Lam NT-K; Wilson JL & Lumantarna E 2007. Cyclic testing of unreinforced masonry walls in two-way bending. *Earthquake Engineering & Structural Dynamics*. 36 (6): 801-821.
- Jaksa MB 2007. Transportable house failure in collapsing soils at Port Broughton, South Australia. *Australian Geomechanics*. 42 (2): 13-24.
- Karney BW & Simpson AR 2007. In-line check valves for water hammer control. *Journal of Hydraulic Research*. 45 (4): 547-554.
- Lee PJ; Lambert MF; Simpson AR; Vitkovsky JP & Misiunas D 2007. Leak location in single pipelines using transient reflections. *Australian Journal of Water Resources*. 11 (1): 53-64.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/44219>
- Lee PJ; Vitkovsky JP; Lambert MF; Simpson AR & Liggett JA 2007. Leak location in pipelines using the impulse response function. *Journal of Hydraulic Research*. 45 (5): 643-652.
- Leonard M; Metcalfe AV; Lambert MF & Kuczera GA 2007. Implementing a space-time rainfall model for the Sydney region. *Water Science and Technology*. 55 (4): 39-47.
- Liu C; Chen C & Jaksa MB 2007. Seepage properties of a single rock fracture subjected to triaxial stresses. *Progress in Natural Science*. 17 (12): 1482-1486.
- Liu IST; Oehlers DJ & Seracino R 2007. Study of intermediate crack debonding in adhesively plated beams. *Journal of Composites for Construction*. 11 (2): 175-183.
- Maier HR 2007. Meeting the challenges of engineering education via online roleplay simulations. *Australasian Journal of Engineering Education*. 13 (1): 31-39. <http://digital.library.adelaide.edu.au/dspace/handle/2440/41568>
- Maier HR & Rowan TSC 2007. Increasing student engagement with graduate attributes. *Australasian Journal of Engineering Education*. 13 (1): 21-29. <http://digital.library.adelaide.edu.au/dspace/handle/2440/41569>
- Maier HR; Baron JA & McLaughlan RG 2007. Using online roleplay simulations for teaching sustainability principles to engineering students. *International Journal of Engineering Education*. 23 (6): 1162-1171.
- Mardia KV; Nyirongo VB; Walder AN; Xu C; Dowd PA; Fowell RJ & Kent JT 2007. Markov Chain Monte Carlo Implementation of Rock Fracture Modelling. *Mathematical Geology*. 39 (4): 355-381.
- Misiunas D; Lambert MF; Simpson AR & Olsson G 2007. Assessing water mains condition using hydraulic transients. *Institution of Civil Engineers. Proceedings. Water Management*. 160 (2): 89-94.
- Oehlers DJ 2007. Teaching the fundamental principles in reinforced concrete. *Australian Journal of Structural Engineering*. 7 (3): 99-108. <http://digital.library.adelaide.edu.au/dspace/handle/2440/44218>
- Oehlers DJ; Liu IST & Seracino R 2007. A generic design approach for EB and NSM longitudinally plated RC beams. *Construction and Building Materials*. 21 (4): 697-708.
- Ozbakkaloglu T & Saatcioglu M 2007. Seismic performance of square high-strength concrete columns in FRP stay-in-place formwork. *Journal of Structural Engineering-ASCE*. 133 (1): 44-56.  
<http://digital.library.adelaide.edu.au/dspace/handle/2440/41728>

- Prest P; Daniell TM & Ostendorf BF 2007. Using GIS to evaluate the impact of exclusion zones on the connection cost of wave energy to the electricity grid. *Energy Policy*. 35 (9): 4516-4528.
- Ravet F; Zou L; Bao X; Ozbakkaloglu T; Saatcioglu M & Zhou J 2007. Distributed Brillouin sensor for structural health monitoring. *Canadian Journal of Civil Engineering*. 34 (3): 291-297.
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