Research Report

Meganiese Ingenieurswese: 2006

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**Journal Articles (subsidised)**

**BERTRAM V, NI EUWENHUIJS JJ.** Modular and standard: enticing goals not always achieved. *Naval Architect* 2006; **MISSING JOURNAL VOLUME** (2) : 32-37.


**SCHREVE K.** Fitting 2D B-splines with draft angle to point data. *Computer-Aided Design* 2006; "MISSING JOURNAL VOLUME" (38) : 836-844.


DOBSON RT, MEYER AJ. *Use of a heat pipe recovery heat exchanger to improve the energy utilisation of a drier.* The 3rd International Conference on Industrial & Commercial Use of Energy incorporating AfriCampus, Lagoon Beach Hotel, Milnerton, South Africa, Cape Peninsula University of Technology, Cape Town 2006: 59-64.

DOBSON RT, RUPPERSBERG JC. *A novel closed loop thermosyphon heat pipe reactor cavity cooling system (RCCS) for a pebble bed modular reactor (PBMR).* The 8th International Heat Pipe Symposium, Kumamoto, Japan, Kumamoto University 2006: 276-281.


GOUSSARD CL, BASSON AH. *Cavity pressure estimation for a piston moulding life cycle cost model.* TMCE 2006, Ljubljana, Slovenia, University of Ljubljana; Delft Univ of Technology 2006: 767-774.

GOUSSARD CL, BASSON AH. *Parametric design model for the optimisation of a piston moulding machine.* The 16th CIRP International Design Seminar, Kanaskis, Alberta, Canada, CIRP 2006 2006: 786-792.


**Doctoral completed**


**Masters completed**


**BESTER WW.** Application of turbo-chargers in spark ignition passenger vehicles. MScIng, 2006. 92 pp. Studieleier: Taylor AB. Medstudieleier: Scheffer C.

**BRANFIELD GR.** Thermal characteristics of a greenhouse for aquaculture. MScIng, 2006. 86 pp. Studieleier: Kröger DG.

**CENCELLI NA.** Optimization of a small-scale wind turbine blade for lowspeed wind conditions. MScIng, 2006. 88 pp. Studieleier: Von Backström TW.

**CRONJE M.** Finite element modelling of shielded metal arc welding. MScIng, 2006. 110 pp. Studieleier: Van Der Westhuizen K.

**DU TOIT MJ.** Simulation of internal combustion engin crankshaft dynamics. MIng, 2006. 90 pp. Studieleier: Van Der Westhuizen K.

**GILL A.** The investigation of four quadrant axial flow compressor performance. MScIng, 2006. 90 pp. Studieleier: Von Backström TW.

**HUSSELMAN M.** Modelling and verification of valve train dynamics in engines. MScIng, 2006. 94 pp. Studieleier: Van Der Westhuizen K.

**LOVEDAY H.** The design of a hydrofoil system for sailing catamarans. MScIng, 2006. 86 pp. Studieleier: Von Backström TW.

**MEYER AJ.** Steam jet ejector cooling powered by low grade waste or solar heat. MScIng, 2006. 95 pp. Studieleier: Harm ts TM. Medestudieleier: Dobson RT.

**MI LANDRI GS.** Seakeeping control of Hysucats. MScIng, 2006. 92 pp. Studieleier: Van Niekerk JL.

**NORTHCOTE NM.** The modelling and control of an automotive. MScIng, 2006. 88 pp. Studieleier: Taylor AB. Medestudieleier: Scheffer C.

**OLIVIER JR.** Technical and economic evaluation of the utilization of solar energy at SA SANAE IV Base in Antarctica. MScIng, 2006. 86 pp. Studieleier: Harm ts TM.

**SMITH GR.** Building, testing and modelling of a pulse tube cryogenic cooler. MScIng, 2006. 86 pp. Studieleier: Dobson RT.

**VAN ZYL JM.** Numerical modelling and experimental processes in a motor car vehicle underhood. MScIng, 2006. 70 pp. Studieleier: Harm ts TM.

**VILJOEN DJ.** Evaluation and performance prediction of cooling tower spray zones. MScIng, 2006. 83 pp. Studieleier: Reuter HCR.


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