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Professional Experience

Professor of Thermos-fluid Engineering

*Mechanical Engineering Department,
Faculty of Engineering, University of Tabuk,* Kingdom of Saudi Arabia

October 2014 – till now

- Chaired the national accreditation committees of the Mechanical Engineering Department for ABET reaccreditation and NCAAA full accreditation during the period 2018–2026.
 - Developed and delivered undergraduate courses in Fluid Mechanics, Thermodynamics, Design of thermo-fluid systems, Power and Desalination Plants, Internal Combustion Engines, Turbomachinery, Engineering Statics and Dynamics, and Engineering Drawing and Graphics.
 - Supervised final year students and their progress in the graduation project.
 - Conducted approved consultancy work under the auspices of the University.
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Associate Professor (on leave from October 2014)

*Mechanical Power Engineering Department,
Faculty of Engineering, Mansoura University,* Egypt

November 2016– till now

- Supervised M.Sc and PhD students.
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Assistant Professor (on leave from October 2014)

*Mechanical Power Engineering Department,
Faculty of Engineering, Mansoura University,* Egypt

July 2011 – November 2016

- Developed and delivered undergraduate & postgraduate courses in Computer Application in Mechanical Power Engineering, Fluid Mechanics, Technologies of Water Desalination, Fluid Machines, Environmental Pollution, and Nuclear Power Plants.
 - Liaised with industrial partners and other universities.
 - Generated income to support research.
 - Supervised M.Sc and PhD students.
 - Supervised final year students and their progress in the graduation project.
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Associate Research Fellow

- Worked on university consortium projects focusing on sustainable water management and pollution control in urban water systems.
- Developed decision support software for sustainable housing.

Research Assistant (NEPTUNE Project)

May 2008 – May 2010

[Process Control - Water Software Systems,](#)
[De Montfort University,](#) United Kingdom

- Developed control, simulation, and optimization algorithms for water distribution systems.
- Implemented numerical algorithms.
- Liaised with industrial partners and other universities.
- Conducted approved consultancy work.
- Supervised final year students and their progress in the graduation project.

Project coordinator (NEPTUNE Project)

October 2007 – May 2008

[Process Control - Water Software Systems,](#)
[De Montfort University,](#) United Kingdom

- Developed simulation and pressure control optimization algorithms for water distribution systems.
- Implemented algorithms into software packages.
- Improved the robustness of pump scheduling modules.

Assistant lecturer

August 2004 - August 2007

[Mechanical Power Engineering Department,](#)
[Faculty of Engineering, Mansoura University,](#) Egypt

- Assisted in teaching and laboratory demonstrations.
- Conducted tutorials and projects.
- Supervised graduation projects.
- Supervised the Laboratory of Fluid Mechanics.

Demonstrator

January 2001 - August 2004

[Mechanical Power Engineering Department,](#)
[Faculty of Engineering, Mansoura University,](#) Egypt

- Assisted in teaching and laboratory demonstrations.
- Conducted tutorials and projects.

Activities

National Accreditation Preparation (NCAAA), University of Tabuk, 2024

- Led the preparation efforts for the BSc in Mechanical Engineering program to meet the standards set by the National Commission for Academic Accreditation and Assessment (NCAAA) in Saudi Arabia.
- Collaborated with faculty members to ensure alignment of the program with accreditation criteria and requirements.
- Prepared documentation, reports, and evidence of program effectiveness and quality.

ABET Reaccreditation Preparation, University of Tabuk, 2023

- Spearheaded the preparation activities for the BSc in Mechanical Engineering program to undergo reaccreditation by the Accreditation Board for Engineering and Technology (ABET).
- Worked closely with faculty and staff to address feedback from previous accreditation reviews and implement improvements.
- Conducted assessments and evaluations to ensure compliance with ABET accreditation criteria and standards.

Curriculum Development: BSc in Mechanical Engineering, University of Tabuk

- Played a key role in the development of a new curriculum for the BSc in Mechanical Engineering program at the University of Tabuk.
- Designed courses, defined learning outcomes, and integrated industry-relevant topics and skills into the curriculum.
- Collaborated with stakeholders to incorporate feedback and ensure the curriculum meets the needs of students and industry demands.

Curriculum Development: Mechanical Power Engineering Department, Ministry of Higher Education, Egypt

- Contributed to the development of the curriculum for the Mechanical Power Engineering Department through the Engineering Education Development Project (EEDP) under the Ministry of Higher Education in Egypt.
- Participated in curriculum design, review, and enhancement activities to improve the quality and relevance of engineering education.
- Ensured alignment with national educational standards and industry requirements.

Education

Name of Institution	Qualifications obtained	From	To
Doctor of Philosophy, PhD , (Water Engineering), Thesis title is " Pressure, Leakage and Energy Management in Water Distribution System "	De Montfort University , UK	10/2007	3/2011
Master of Science Degree, M.Sc , in Mechanical Engineering. Thesis title is " Heat Transfer in Microchannels " *	Mansoura University , Egypt	3/2002**	7/2004
Bachelor of Science Degree, B.Sc , in Mechanical Power Engineering. Graduation Project is " Design, Manufacturing and Testing of Regenerative Turbine pump "	Mansoura University , Egypt	9/1995	7/2000**

* (This thesis took the Mansoura University's Award for The Best Thesis submitted for Master of Science Degree) - Mansoura University - 25/6/2007.

** The period from 8/2000 to 3/2002 was spent in the Egyptian forced army as a supplementary service. I have gained a bachelor degree in the Military since (6 months), and served as a lieutenant (mechanical engineer) in the Egyptian forced navy.

Training

Title and nature of course	Institution / Correspondence College	Dates
Fundamentals of Artificial Intelligence for Faculty Members in Saudi Universities who are Non-Specialists (أساسيات الذكاء الاصطناعي لأعضاء هيئة التدريس في الجامعات السعودية من غير المتخصصين)	King Abdulaziz University, KSA	03-06/08/2025
Combating corruption and defining it. (مكافحة الفساد و التعريف به)	Mansoura University , Egypt	10-11/06/2025
Ethics of scientific research. (اخلاقيات البحث العلمي)	Mansoura University , Egypt	05-06/01/2025
Cybersecurity. (الامن السيبراني)	Mansoura University , Egypt	06-07/08/2022
Design and production of electronic courses. (تصميم و انتاج المقررات الالكترونية)	Mansoura University , Egypt	26-27/07/2022
Concepts and nature of disability and the various methods of accommodation for persons with disabilities, especially in education. (مفاهيم وطبيعة الإعاقة وسبل التيسيرات المختلفة لهم خاصة في التعليم)	Mansoura University , Egypt	24-25/07/2022
The credit hour system. (نظام الساعات المعتمدة)	Mansoura University , Egypt	19-20/07/2022
University administration (الإدارة الجامعية)	Mansoura University , Egypt	24-25/08/2014
Strategic Planning (التخطيط الاستراتيجي)	Mansoura University , Egypt	01-02/06/2014
How to compete research project funds, locally and internationally (مشروعات البحوث التنافسية المحلية و العالمية)	Mansoura University , Egypt	09-10/03/2014
Financial and legal aspects in the university works (الجوانب المالية والقانونية في الاعمال الجامعية)	Mansoura University , Egypt	03-04/11/2013
Administration of the research team (ادارة الفريق البحثي)	Mansoura University , Egypt	21-22/07/2013
Examination and Student Evaluation systems (نظم الامتحانات وتقييم الطلاب)	Mansoura University , Egypt	23-24/06/2013
Scientific Publication (النشر العلمي)	Mansoura University , Egypt	03/05/07/2011
Time management, meetings (إدارة الوقت والاجتماعات)	Mansoura University , Egypt	26-28/06/2011
The use of technology in teaching (استخدام التكنولوجيا في التدريس)	Mansoura University , Egypt	19-21/06/2011
Organization of scientific conferences (تنظيم المؤتمرات العلمية)	Mansoura University , Egypt	12-14/06/2011
Communication skills in various modes of education (الاتصال في انماط التعليم المختلفة مهارات)	Mansoura University , Egypt	29-31/05/2011
Learning and Teaching in Higher Education (LTHE) (II)	University of Exeter , UK	(22/10-26/11)/2010
Learning and Teaching in Higher Education (LTHE) (I)	University of Exeter , UK	30/09/2010
Presenting Your Research to an Audience	De Montfort University , UK	22/05/2008
Writing For Publication	De Montfort University , UK	13/05/2008
Research Methods	De Montfort University , UK	07/03/2008
Writing Skills	De Montfort University , UK	27/02/2008

Planning And Managing Research	De Montfort University , UK	26/02/2008
English Language for Academic Research Purposes	De Montfort University , UK	18/01/2008
ABB 800xA workshop	ABB, Asea Brown Boveri Ltd.	07-09/11/2007
Intellectual Property Rights And Ethics	De Montfort University , UK	15/11/2007
Literature Searching And Reference Management	De Montfort University , UK	05/11/2007
Effective Presentation Using Powerpoint	De Montfort University , UK	19/10/2007
ABB PGIM workshop	ABB, Asea Brown Boveri Ltd.	10-12/10/2007
Creating And Managing Large Documents	De Montfort University , UK	27/09/2007
Lecturer preparation course (دورة إعداد معلم)	Mansoura University , Egypt	(30/06-26/07)/2007
Ethics of the Profession (اخلاقيات و آداب المهنة)	Mansoura University , Egypt	10-12/09/2006

Field of Research

✓ Solar Energy	✓ Thermal Compact Models	✓ Urban Development
✓ Hydrogen Energy	✓ Hydraulics	✓ Desalination
✓ Thermo-fluid	✓ Water distribution networks	✓ Modelling and Optimization
✓ Heat Transfer	✓ CFD software development	

Publications

Books

Mohammed Said, Hossam Abdelmeguid, Lotfy Rabie, 2017, "[Control valve Flow Coefficient and Cavitation Studies](#)", LAP LAMBERT Academic Publishing. (ISBN-10): 3330090545, (ISBN-13) 978-3-330-09054-5.

Hossam. AbdelMeguid, 2014, "Fluid Mechanics", Mansoura University, Egypt, (ISBN-13) (under issue)

Hossam. AbdelMeguid, 2013, "Environmental Pollution (Humanities 3) - تلوث بيئي", Mansoura University, Egypt, (ISBN-13) (under issue)

Hossam AbdelMeguid, 2012, "Computer Application in Mechanical Power Engineering", Mansoura University, Egypt, (ISBN-13) 978-9776005891

Hossam AbdelMeguid, 2011, "Process Modelling and Simulation in Chemical Engineering", Mansoura University, Egypt, (ISBN-13) (under issue)

Hossam AbdelMeguid, 2010, "[Fluid Flow and Heat Transfer in Microchannels: Analytical review, theories and numerical study](#)", VDM-Verlag, Germany. (ISBN-10): 3639234561, (ISBN-13) 978-3639234565.

Hossam AbdelMeguid, Abdelgwad Mondy, 2010, "[Regenerative Turbine Pump: Theory, Design, Construction and Experimental study](#)", VDM-Verlag, Germany. (ISBN-10): 3639236696, (ISBN-13) 978-3639236699.

Peer Reviewed Journals

- AbdelMeguid H.** Comprehensive modeling and long-term thermal analysis of phase change material dynamics in solar distiller systems and insights for experimental planning. *J Energy Storage* 2026;142:119564. <https://doi.org/10.1016/j.est.2025.119564>.
- Elsawy M, Lakhout A, Alahmari TS, **AbdelMeguid H**, Shaban M. Performance assessment of a foundation resting on reinforced collapsible Sabkha soil by deep soil mixing columns using machine learning analyses. *Alexandria Eng J* 2025;118:591–605. <https://doi.org/10.1016/j.aej.2025.01.047>.
- AbdelMeguid H**, Alanazi K, F. Al-Shammari A, Al-Twaim O, Aljuhani A, Al-Shahrani N, et al. Sequential Thermal and Optical Upgrades for Passive Solar Stills: Toward Sustainable Desalination in Arid Climates. *Clean Energy Sustain* 2025;3:10017. <https://doi.org/10.70322/ces.2025.10017>.
- H. AbdelMeguid**, “Adaptive thermal buffering in solar desalination: Seasonally optimized PCM selection for extreme diurnal climates.” *Sol. Energy Mater. Sol. Cells*, 289 (2025): 113687. Elsevier B.V. <https://doi.org/10.1016/j.solmat.2025.113687>.
- H. AbdelMeguid**, Multi-stage PCM-enhanced solar distiller desalination: investigating energy storage dynamics, phase transition behavior, and system performance with variable PCM/saline mass ratios, *J. Energy Storage*. 122 (2025) 116687. <https://doi.org/10.1016/j.est.2025.116687>.
- H. AbdelMeguid**, Examining the performance of optically optimized solar stills with phase change materials: A theoretical perspective on ongoing debates, *Sol. Energy Mater. Sol. Cells*. 282 (2025) 113394. <https://doi.org/10.1016/j.solmat.2024.113394>.
- M. Elsaywy, A. Lakhout, T.S. Alhmari, **H. AbdelMeguid**, M. Shaban, Performance assessment of a foundation resting on reinforced collapsible Sabkha soil by deep soil mixing columns using machine learning analyses, *Alexandria Eng. J.* 118 (2025) 591–605. <https://doi.org/10.1016/j.aej.2025.01.047>.
- H. AbdelMeguid**, Year-round performance evaluation of a solar-powered compact HDH desalination system for remote water scarce regions, *Int. J. Green Energy*. (2025) 1–23. <https://doi.org/10.1080/15435075.2025.2454255>.
- H. AbdelMeguid**, W.M. El Awady, Theoretical investigation into saline optical properties for enhancing solar still performance: Mathematical modeling approach. *Therm Sci Eng Prog* 2024;54:102846. <https://doi.org/10.1016/j.tsep.2024.102846>.
- H. AbdelMeguid**, A. GHERISSI, M. Elsaywy, Z. Aljohani, A. Asiri, M. Saber, A. Fouda, Potential application of solar still desalination in NEOM region, *Appl. Water Sci.* 14 (2024) 53. <https://doi.org/10.1007/s13201-024-02115-4>.
- H. AbdelMeguid**, W.M. El Awady, Optimizing solar still performance through glass cover optical properties: A mathematical modeling and theoretical investigation, *Ain Shams Eng. J.* 15 (2024) 102589. <https://doi.org/10.1016/j.asej.2023.102589>.
- H. AbdelMeguid**, H.F. Al-johani, Z.F. Saleh, A.A. Almalki, A.M. Almalki, Advancing Green Hydrogen Production in Saudi Arabia : Harnessing Solar Energy and Seawater Electrolysis, *Clean Energy Sustain*. 1 (2023) 1–14. <https://doi.org/https://doi.org/10.35534/ces.2023.10006>.
- H. Al-johani, Z. Saleh, A. Almalki, A. Almalki, **H. AbdelMeguid**, Advancements in Green Hydrogen Production using Seawater Electrolysis in Tabuk , Saudi Arabia, *Int. J. Eng.* 15 (2023) 42–55. <https://www.cscjournals.org/journals/IJE/description.php%0A42>.
- S.A. Zaid, A. Bakeer, H. Albalawi, A.M. Alatwi, **H. AbdelMeguid**, A.M. Kassem, Optimal Fractional-Order Controller for the Voltage Stability of a DC Microgrid Feeding an Electric Vehicle Charging Station, *Fractal Fract.* 7 (2023) 677. <https://doi.org/10.3390/fractalfract7090677>.
- S.A. Zaid, A. Bakeer, G. Magdy, H. Albalawi, A.M. Kassem, M.E. El-Shimy, **H. AbdelMeguid**, B. Manqarah, A New Intelligent Fractional-Order Load Frequency Control for Interconnected Modern Power Systems with Virtual Inertia Control, *Fractal Fract.* 7 (2023) 62. <https://doi.org/10.3390/fractalfract7010062>.
- K. Alshamrani, A. Asiri, A. Alqarni, **H. AbdelMeguid**, Numerical Investigation of The Performance of Fully Solar Driven Compact HDH Desalination System, *Int. J. Eng.* 15 (2023) 23–41. <https://www.cscjournals.org/library/manuscriptinfo.php?mc=IJE-518>.
- Z. Aljohani, A. Asiri, S. Al-awlaqi, T. Aljohani, **H. Abdelmeguid**, Assessment of Solar Energy Availability and Its Potential Applications in NEOM Region, *Renew. Energy Res. Appl.* 5 (2023) 11–19. <https://doi.org/10.22044/rera.2023.12674.1201>.

- S.A. Zaid, A.M. Kassem, A.M. Alatwi, H. Albalawi, **H. AbdelMeguid**, A. Elemary, Optimal Control of an Autonomous Microgrid Integrated with Super Magnetic Energy Storage Using an Artificial Bee Colony Algorithm, *Sustainability*. 15 (2023) 8827. <https://doi.org/10.3390/su15118827>.
- M. Abu Mallouh, **H. AbdelMeguid**, M. Salah, A comprehensive comparison and control for different solar water heating system configurations, *Eng. Sci. Technol. an Int. J.* 35 (2022) 101210. <https://doi.org/10.1016/j.jestch.2022.101210>.
- S.A. Zaid, H. Albalawi, **H. AbdelMeguid**, T.A. Alhmiedat, A. Bakeer, Performance Improvement of H8 Transformerless Grid-Tied Inverter Using Model Predictive Control Considering a Weak Grid, *Processes*. 10 (2022) 1243. <https://doi.org/10.3390/pr10071243>.
- H. Albalawi, M.E. El-Shimy, **H. AbdelMeguid**, A.M. Kassem, S.A. Zaid, Analysis of a Hybrid Wind/Photovoltaic Energy System Controlled by Brain Emotional Learning-Based Intelligent Controller, *Sustainability*. 14 (2022) 4775. <https://doi.org/10.3390/su14084775>.
- Said, M. M., **Abdelmeguid, H. S. S.** & Rabie, L. H. 2016. The Accuracy Degree of CFD Turbulence Models for Butterfly Valve Flow Coefficient Prediction. *American Journal of Industrial Engineering*, 4, 14-20.
- Ramzy, A., **AbdelMeguid, H.** & ElAwady, W.M., 2015. A novel approach for enhancing the utilization of solid desiccants in packed bed via intercooling. *Applied Thermal Engineering*, 78(0), pp.82–89.
- Said, M. M., **Abdelmeguid, H. S.** & Rabie, L. H. 2014. A Comparison Study between 3-D CFD and Experimental Data of Butterfly Valve Coefficients. *Mansoura Engineering Journal*, 39(3). ISSN-1110 0141.
- Khater, A., Sabry, M.-N., **AbdelMeguid, H.**, 2014, Application of Deterministic Lateral Displacement in Biological Cell Separation, *Mansoura Engineering Journal*, 39(3), ISSN-1110 0141.
- Elsharkawy, M., **AbdelMeguid, H.**, El-Sharkawy, I. I., Rabie, L., 2014, Experimental and theoretical investigation of decentralized desalination system, *Mansoura Engineering Journal*, 39(2), ISSN-1110 0141.
- El-Sharkawy, I. I., **AbdelMeguid, H.**, Saha, B. B. 2014, [Potential use of solar powered adsorption cooling systems in Middle East](#), *Applied Engineering*, 126, 235-245.
- Ahmed Ramzy K., Waleed M. ElAwady, **Hossam AbdelMeguid**, 2014, [Modeling of Heat and Moisture Transfer in Desiccant Packed Bed Utilizing Spherical Particles of Clay Impregnated with CaCl₂](#), *Applied Thermal Engineering*, 66(1-2) 499-506.
- El-Sharkawy, I. I., **AbdelMeguid, H.**, Saha, B. B. 2013. [Towards An Optimal Performance Of Adsorption Chillers: Reallocation Of Adsorption/Desorption Cycle Times](#). *International Journal Of Heat And Mass Transfer*, 63, 171-182.,
- Farmani R., Butler D., Hunt D., Memon F., **AbdelMeguid H.** , Ward S, and Rogers C., 2012, "[Scenario based sustainable water management and urban regeneration](#)", *Proceedings of the ICE - Engineering Sustainability*, 165 (1), 89-98.
- AbdelMeguid, H.**, Skworcow, P., and Ulanicki, B., 2011, "[Mathematical modelling of a hydraulic controller for PRV flow modulation](#)", *Journal of Hydroinformatics*, Vol 13 (3), pp 374–389.
- Sabry, M-N., **AbdelMeguid, H.S.**, 2008, "[Compact Thermal Models: A Global Approach](#)", *J. Electron. Packag.*, Vol. 130(4), pp(041107-6), DOI:10.1115/1.299313..

Peer Reviewed International Conference

- Abdelmeguid, H.**, Alotaibi, O., Almubarak, Abdulrahman Alshaman, A. & Alrehaili, H. Decoupling Solar Intermittency : A Performance Evaluation of a Battery-Buffered Green Hydrogen Production Unit for Sustainable Energy Systems. in *Proceedings of the 3rd GCC International Conference on Industrial Engineering and Operations Management (IEOM Society International, USA, Tabuk, Saudi Arabia, 2026)*.
- Abdelmeguid, H.**, Almubarak, A., Alotaibi, O., Alshaman, A. & Alrehaili, H. Quantifying the System-Level Impact of Alkaline Electrolyzer Degradation on Solar-to-Hydrogen Efficiency and Lifetime Performance. in *Proceedings of the 3rd GCC International Conference on Industrial Engineering and Operations Management (IEOM Society International, USA, Tabuk, Saudi Arabia, 2026)*.
- Abdelmeguid, H.**, Abdulrahman Alshaman, Almubarak, A., Alotaibi, O. & Alrehaili, H. Maximizing Lifetime Value : A Techno-Economic Analysis of Degradation-Aware Operating Strategies for Solar-Powered Alkaline Electrolyzers. in *Proceedings of the 3rd GCC International Conference on Industrial Engineering and Operations Management (Publisher: IEOM Society International, USA, Tabuk, Saudi Arabia, 2026)*.

- Khater, A., Sabry, M.-N., **AbdelMeguid, H.**, 2014, Design Parameters for Deterministic Lateral Displacement Separation Technique in Biomems, Proceedings of the 4th European Conference on Microfluidics - Microfluidics 2014 - Limerick, December 10-12, 2014.
- El-Sharkawy, I. I., **AbdelMeguid, H.**, Saha, B. B., Koyama, S. & Miyazaki, T. 2013. Performance Investigation of A Solar-Powered Adsorption Cooling System: A Case Study For [Egypt International Symposium on Innovative Materials for Processes in Energy Systems 2013 \(Impres2013\)](#). Kyushu University, Fukuoka, Japan. (Sept. 4-6)
- Memon, F. A., Butler, D., Farmani, R., **AbdelMeguid, H.**, Atkinson, S., Rogers, C., and Hunt, D. (2011). "Urban Futures – Sustainability (Resilience) Evaluation of Water Infrastructure " The 2011 AEESP Education & Research Conference, University of South Florida (July 10-12).
- Ward, S., **AbdelMeguid, H.**, Farmani, R., Butler, D., and Memon, F. A. (2011). "Sustainable water management – modelling acceptability for decision support: a methodology." 11th International Conference on Computing and Control for the Water Industry 2011: "Urban Water Management: Challenges and Opportunities" University of Exeter, UK, (5-7 September).
- Butler, D., Farmani, R., and **AbdelMeguid, H.**, (2011). "[Optioneering development-scale water systems](#)" The Future of Urban Water: Solutions for Livable and Resilient Cities, UNESCO, Paris (24-26 January).
- AbdelMeguid, H.** and Ulanicki, B., "[Feedback rules for operation of pumps in a water supply system considering electricity tariffs](#)", WDSA 2010, the 12th annual Water Distribution Systems Analysis conference., Tucson, Arizona, USA., September 12-15, 2010.
- AbdelMeguid, H.** and Ulanicki, B., "[Pressure and leakage management in water distribution systems via flow modulation PRVs](#)", WDSA 2010, the 12th annual Water Distribution Systems Analysis conference., Tucson, Arizona, USA., September 12-15, 2010.
- Skworcow, P., Ulanicki, B., **AbdelMeguid, H.** and Paluszczyszyn, D. "[Model Predictive Control for Energy and Leakage Management in Water Distribution Systems](#)" [UKACC International Conference on CONTROL 2010](#), Coventry, UK, September 7-10, 2010.
- AbdelMeguid, H.**, Skworcow, P., and Ulanicki, B., "[Mathematical modelling of a hydraulic controller for PRV flow modulation](#)", [CCWI 2009 - Integrating Water Systems: Proceedings of the Tenth International Conference on Computing and Control in the Water Industry 2009](#), University of Sheffield, UK, September 1-3, 2009.
- Skworcow, P., **AbdelMeguid, H.**, Ulanicki, B. and Bounds, P., "[Optimal pump scheduling with pressure control aspects: case studies](#)", [CCWI 2009 - Integrating Water Systems: Proceedings of the Tenth International Conference on Computing and Control in the Water Industry 2009](#), University of Sheffield, UK, September 1-3, 2009.
- Skworcow, P., **AbdelMeguid, H.**, Ulanicki, B., Bounds, P. and Patel, R., "[Combined energy and pressure management in water distribution systems](#)", World Environmental & Water Resources Congress, Kansas City, USA, May 17-21, 2009.
- Ulanicki, B., **AbdelMeguid, H.**, Bounds, P., and Patel, R., "[Pressure control in district metering areas with boundary and internal pressure reducing valves](#)," in 10th International Water Distribution System Analysis conference, WDSA2008 The Kruger National Park, South Africa, 2008.
- Sabry, M.-N., **AbdelMeguid, H.S.**, "[Compact thermal models: a global approach](#)," in International Conference on Thermal Issues in Emerging Technologies, ThETA 1, Cairo, Egypt, 2007, IEEE, Digital Object Identifier 10.1109/THETA.2007.363405, pp. 33-39.
- Sabry M.-N., Djebedjian, B., **Saleh, H. S.**, and Mahgoub, M. M., "[Modeling heat transfer and liquid flow in micro-channels](#)," in International Conference on Thermal and Mechanical Simulation and Experiments in Microelectronics and Microsystems, Brussels, Belgium, 2004, IEEE, Catalog Number 04EX831, pp. 511-518.

Technical Reports

- AbdelMeguid, H.**, (2011), "[Urban Water Optioneering Tool \(UWOT\): User Manual](#)", Centre for Water Systems, University of Exeter, Exeter, UK.
- AbdelMeguid, H.**, (2011), "[Urban Water Optioneering Tool \(UWOT\) Tool kit: Developer guide](#)", Centre for Water Systems, University of Exeter, Exeter, UK.
- AbdelMeguid, H.**, (2010), "[Redeveloping Urban Water Optioneering Tool \(UWOT\): Software and implementation plan](#)", Centre for Water Systems, University of Exeter, Exeter, UK.
- AbdelMeguid, H.**, (2010), "[Report on Urban Water Optioneering Tool \(UWOT\): Description of UWOT Simulink model, code and methodologies](#)", Centre for Water Systems, University of Exeter, Exeter, UK.
- AbdelMeguid, H.**, Skworcow, P., and Ulanicki, B. (2009). "[Energy and Pressure Management of Oldham Water Supply System - United Utilities case study "Off-line study".](#)" Process Control - Water Software Systems, De Montfort University, Leicester, UK.
- AbdelMeguid, H.**, Skworcow, P., Ulanicki, B., Li, P., Postlethwaite, I., and Prempain, E. (2009). "[Supervisory Pressure Control](#)." Process Control - Water Software Systems, De Montfort University, Leicester, UK.
- Skworcow, P., **AbdelMeguid, H.**, and Ulanicki, B. (2009). "[Combined energy and pressure management: Yorkshire Water case study.](#)" Process Control - Water Software Systems, De Montfort University, Leicester, UK.
- AbdelMeguid, H.**, Skworcow, P., and Ulanicki, B. (2009). "[Pressure Control Case Studies for Selected DMAs Equipped with AQUAI-Mod Controller Report :Steady state study.](#)" Process Control - Water Software Systems, De Montfort University, Leicester, UK.
- AbdelMeguid, H.**, Bounds, P., and Ulanicki, B. (2008). "[AQUAI-MOD hydraulic controller Report - Experimental and Modelling studies.](#)" Process Control - Water Software Systems, De Montfort University, Leicester, UK.
- AbdelMeguid, H.**, Bounds, P., and Ulanicki, B. (2007). "[Pressure Management Report, Supply zone DMA E067-Waterside.](#)" Process Control - Water Software Systems, De Montfort University, Leicester, UK.

Dissertations

- Hossam AbdelMeguid**, "[Pressure, Leakage, and Energy Management in Water Distribution Systems.](#)" in [Water Engineering](#). vol. Ph.D, Leicester, UK: De Montfort University, 2011.
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