


MIDDLE TECHNICAL UNIVERSITY - IRAQ

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Qualification :	الشهادات العلمية
• B.Sc.(2006) “Mechanical engineering” “University of Basrah” (Iraq)	
• M.Sc. (2009) “Mechanical engineering” “University of Basrah” (Iraq)	
• P.hD. (2019) “Mechanical engineering” “University of Swansea” (United Kingdom)	
Fields of Interest :	مجالات الاهتمام
• Numerical Simulation (CFD)	
• Fluid flow	
• Thermodynamic	
• Heat transfer	

Recent Publication :	اخر البحوث المنشورة
<input type="checkbox"/> Novel semi-implicit, locally conservative Galerkin (SILCG) methods: application to blood flow in a systemic circulation HM Hasan, A Coccarelli, P Nithiarasu Computer Methods in Applied Mechanics and Engineering 332, 217-233	3 2018
<input type="checkbox"/> Influence of ageing on human body blood flow and heat transfer: A detailed computational modelling study A Coccarelli, HM Hasan, J Carson, D Parthimos, P Nithiarasu International journal for numerical methods in biomedical engineering 34 (10 ...	1 2018
<input type="checkbox"/> Robust Finite Element Approaches to Systemic Circulation Using the Locally Conservative Galerkin (LCG) Method P Nithiarasu Proceedings of the Indian National Science Academy 82 (2)	1 2016
<input type="checkbox"/> Numerical Study of Pressure Drop and Fluid Friction In Laminar Flow Rectangular Microchannels HM Hasan Basrah Journal for Engineering Science 14 (1), 108-121	1 2014
<input type="checkbox"/> A SEMI IMPLICIT, LOCALLY CONSERVATIVE GALERKIN APPROACH FOR MODELLING SYSTEMIC BLOOD CIRCULATION HM Hasan, P Nithiarasu Proceedings of the 25th UKACM Conference on Computational Mechanics 12, 13	2017

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| <input type="checkbox"/> A novel Implicit Locally Conservative Galerkin Method (ILCG) for bioheat transfer calculations in a human body.
HM Hasan, P Nithiarasu
ICHMT DIGITAL LIBRARY ONLINE | 2017 |
| <input type="checkbox"/> Numerical Investigation of Heat Transfer in Parallel Rectangular Microchannel Heat Exchanger
HM Hasan
Thi-Qar University Journal for Engineering Sciences 4 (3), 1-29 | 2013 |
| <input type="checkbox"/> Effect of the Axial Heat Conduction in Parallel Flow Rectangular Microchannel Heat Exchanger
HM Hasan
Thi-Qar University Journal for Engineering Sciences 4 (1), 113-137 | 2013 |
| <input type="checkbox"/> AN ITERATIVE LOCALLY CONSERVATIVE GALERKIN (LCG) METHOD FOR STUDYING FLOW IN A HUMAN ARTERIAL NETWORK
HM Hasan, P Nithiarasu | |

Administration:

المناصب الادارية

- (2010-2013) , Head of mechanical power , Shatra institute, Iraq