

JOURNAL OF MECHANICAL ENGINEERING

An International Journal

Vol 18 (2)	15 April 2021	ISSN 1823-5514	eISSN 2550-164X
------------	---------------	----------------	-----------------

1	Computational Analysis of Soft Polymer Lattices for 3D Wound Dressing Materials <i>Muhammad Hanif Nadhif, Muhammad Irsyad, Muhammad Satrio Utomo, Muhammad Suhaeri, and Yudan Whulanza*</i>	1
2	Sustainable Surface Water Dissolved Oxygen Monitoring at Lake 7/1F, Shah Alam, Selangor <i>Norashikin M. Thamrin*, Megat Syahirul Amin Megat Ali, Mohamad Farid Misnan, Nik Norliyana Nik Ibrahim, and Navid Shaghaghi</i>	13
3	Heat Transfer Simulation of Various Material for Polymerase Chain Reaction Thermal Cycler <i>Kenny Lischer*, Ananda Bagus Richky Digdaya Putra, Muhamad Sahlan, Apriliana Cahya Khayrani, Mikael Januardi Ginting, Anondho Wijanarko, Yudan Whulanza, and Diah Kartika Pratami</i>	27
4	COVID-19 and Effective Management of Public Transport: Perspective from the Philippines <i>G U Nnadiri, and N S Lopez*</i>	39
5	Microstructure and Microhardness Alterations of Inconel 718 under Cryogenic Cutting <i>Che Hassan Che Haron, Jaharah Abdul Ghani, Muammar Faiq Azhar, and Nurul Hayati Abdul Halim*</i>	51
6	Effect of Spindle Speed and Feed Per Tooth in Feed Rate Perspective on Inconel HX Cutting Force <i>N. A. Mohd Nor*, N. F. Kamarulzaman, N. A. S. Zakaria, and N. Awang, B. T. H. T. Baharudin, M. K. A. Mohd Ariffin, and Z. Leman</i>	65
7	Evaluation of Tabular Leg Structure of Mobile Offshore Production Unit (MOPU) Life Extension using Condition Assessment Method <i>Emi Hafizzul Jamaluddin, Azli Abd Razak*, Mohd Shahrman Adenan, and Mohd Faizal Mohamad</i>	77
8	Design for Additive Manufacturing and Finite Element Analysis for High Flexion Total Knee Replacement (TKR) <i>Solehuddin Shuib*, Mohammad Arsyad Azemi, Iffa Mohd Arrif, and Najwa</i>	97

	<i>Syakirah Hamizan</i>	
9	Comparative Investigation of Worm Positions for Worm Gear-box Performance under No-Load Condition <i>Hardik G Chothani*</i> , and <i>Kalpesh D Maniya</i>	111
10	Pressure Drop and Flow Characteristics in a Diffuser with a Dimpled Tube <i>Ehan Sabah Shukri Askari*</i> , and <i>Wirachman Wisnoe</i>	125
11	Heat Transfer and Pressure Drop Characteristics of Hybrid Al ₂ O ₃ -SiO ₂ <i>Muyassarah Syahirah Mohd Yatim, Irnie Azlin Zakaria*</i> , <i>Mohamad Fareez Roslan, Wan Ahmad Najmi Wan Mohamed, and Mohd Faizal Mohamad</i>	145
12	Optimization of Machining Parameters using Taguchi Coupled Grey Relational Approach while Turning Inconel 625 <i>Chinmaya Padhy*</i> , and <i>Pariniti Singh</i>	161
13	Effect of Fiber Misalignment on Mechanical and Failure Response of Kenaf Composite under Compressive Loading <i>M. F. Razali, S.A.H.A. Seman*</i> , and <i>T. W. Theng</i>	177
14	Flexible Pavement Crack's Severity Identification and Classification using Deep Convolution Neural Network <i>A. Ibrahim*</i> , <i>N. A. Z. M. Zukri, B. N. Ismail, M. K. Osman, N. A. M. Yusof, M. Idris, A. H. Rabian, and I. Bahri</i>	193
15	Severity Effect of Methanol Toxicity from High Pressure Reactor <i>Z A Rashid*</i> , <i>M A Subri, M A Ahmad, M F I Ahmad Fuad, and N S Japperi</i>	203
16	Artificial Neural Network Predictive Modelling of Laser Micro-Grooving for Commercial Pure Titanium (CP Ti) Grade 2 <i>Sivaraos*</i> , <i>A.K Zuhair, M.S. Salleh, M.A.M. Ali, Kadirgama, Satish Pujari, and L.D. Sivakumar</i>	217