

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Cucumo M., Ferraro V., Kaliakatsos D., Mele M.	A simple correlation for the dynamic simulation of a solar thermal plant connected to a radiant floor	Simple Correlation, Dynamic Simulation, Solar Plant, Radiant Floor.	5, 3, 131-138	10.18280/mmep.050301	Cucumo M., Ferraro V., Kaliakatsos D., Mele M. (2018). A simple correlation for the dynamic simulation of a solar thermal plant connected to a radiant floor, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp.131-138. DOI: 10.18280/mmep.050301
2	Gulotta T.M., Guarino F., Mistretta M., Cellura M., Lorenzini G.	Introducing exergy analysis in life cycle assessment: A case study	Exergy Analysis, Life Cycle Assessment (LCA), Cumulative Exergy Demand (CEXD), Technology Obsolescence, Biomass Boiler.	5, 3, 139-145	10.18280/mmep.050302	Gulotta T.M., Guarino F., Mistretta M., Cellura M., Lorenzini G. (2018). Introducing exergy analysis in life cycle assessment: A case study, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 139-145. DOI: 10.18280/mmep.050302
3	Balocco C., Petrone G.	Heat and moisture transfer investigation of surface building materials	Moisture Buffer, Adsorption/Desorption, Porous Material, CFD, Transient Simulation.	5, 3, 146-152	10.18280/mmep.050303	Balocco C., Petrone G. (2018). Heat and moisture transfer investigation of surface building materials, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 146-152. DOI: 10.18280/mmep.050303
4	Genco A., Viggiano A., Magi V.	How to enhance the energy efficiency of HVAC systems	HVAC, Energy Efficiency, Dynamic Simulation.	5, 3, 153-160	10.18280/mmep.050304	Genco A., Viggiano A., Magi V. (2018). How to enhance the energy efficiency of HVAC systems, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 153-160. DOI: 10.18280/mmep.050304
5	Marchitto A., Misale M.	Experiments on parallel connected loops in single phase natural circulation: preliminary results	Single-Phase Natural Circulation Loop, Parallel Circuits, Different Heat Sink Temperature.	5, 3, 161-167	10.18280/mmep.050305	Marchitto A., Misale M. (2018). Experiments on parallel connected loops in single phase natural circulation: preliminary results, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 161-167. DOI: 10.18280/mmep.050305
6	Distefano D.L., Gagliano A., Naboni E., Sapienza V., Timpanaro N.	Thermophysical characterization of a cardboard emergency kit-house	Architecture, Emergency, Cardboard, Reversibility, Repeatability.	5, 3, 168-174	10.18280/mmep.050306	Distefano D.L., Gagliano A., Naboni E., Sapienza V., Timpanaro N. (2018). Thermophysical characterization of a cardboard emergency kit-house, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 168-174. DOI: 10.18280/mmep.050306
7	Nocera F., Gagliano A., Detommaso M.	Energy performance of cross-laminated timber panel (X-Lam) buildings: A case study	Dynamic Energy Analysis, X-lam, nZEB, Cross Laminated Timber Panel.	5, 3, 175-182	10.18280/mmep.050307	Nocera F., Gagliano A., Detommaso M. (2018). Energy performance of cross-laminated timber panel (X-Lam) buildings: A case study, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 175-182. DOI: 10.18280/mmep.050307
8	Cardinale T., Sposato C., A. Feo P., Fazio D.	Clay and fibers: Energy efficiency in buildings between tradition and innovation	Adobe Bricks, Biobased Materials, Mechanical Strength, Natural Fibers, Thermal Conductivity.	5, 3, 183-189	10.18280/mmep.050308	Cardinale T., Sposato C., A. Feo P., Fazio D. (2018). Clay and fibers: Energy efficiency in buildings between tradition and innovation, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 183-189. DOI: 10.18280/mmep.050308
9	Tirmizi S.T., Tirmizi S.R.U.H.	GIS based risk assessment of oil spill and gas leakage vulnerable zones in Pakistan	Risk Assessment, GIS, Spatial Analysis, Oiland Gas Industry, Pakistan.	5, 3, 190-196	10.18280/mmep.050309	Tirmizi S.T., Tirmizi S.R.U.H. (2018). GIS based risk assessment of oil spill and gas leakage vulnerable zones in Pakistan, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 190-196. DOI: 10.18280/mmep.050309
10	Bergero S., Cavalletti P., Chiari A.	The importance of thermal bridge correction in energy refurbishment of existing buildings	Thermal Bridges, Mean Thermal Transmittance, Mean Global Heat Transmission Coefficient, Aerogel Insulating Material, Energy Refurbishment of Buildings, 2-D Numerical Simulation.	5, 3, 197-204	10.18280/mmep.050310	Bergero S., Cavalletti P., Chiari A. (2018). The importance of thermal bridge correction in energy refurbishment of existing buildings, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 197-204. DOI: 10.18280/mmep.050310
11	Cannistraro M., Mainardi E., Bottarelli M.	Testing a dual-source heat pump	Dual-Source Heat Pump, Horizontal Ground Heat Exchangers, Flat-Panel.	5, 3, 205-210	10.18280/mmep.050311	Cannistraro M., Mainardi E., Bottarelli M. (2018). Testing a dual-source heat pump, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 205-210. DOI: 10.18280/mmep.050311
12	Evola G., Marletta L., Cimino D.	Weather data morphing to improve building energy modeling in an urban context	Dynamic Simulations, Cooling Load, Heating Load, Urban Areas, Weather Data.	5, 3, 211-216	10.18280/mmep.050312	Evola G., Marletta L., Cimino D. (2018). Weather data morphing to improve building energy modeling in an urban context, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 211-216. DOI: 10.18280/mmep.050312
13	Caldera M., Ungaro P., Cammarata G., Puglisi G.	Survey-based analysis of the electrical energy demand in Italian households	Electrical Energy Demand, Ecodesign, Residential Sector, Statistical Model.	5, 3, 217-224	10.18280/mmep.050313	Caldera M., Ungaro P., Cammarata G., Puglisi G. (2018). Survey-based analysis of the electrical energy demand in Italian households, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 217-224. DOI: 10.18280/mmep.050313
14	Srikanth B., Kumar H., Rao K.U.M.	A robust approach for WSN localization for underground coal mine monitoring using improved RSSI technique	WSN, Coal Mine Monitoring, Localization, Localization Error, Signal Strength.	5, 3, 225-231	10.18280/mmep.050314	Srikanth B., Kumar H., Rao K.U.M. (2018). A robust approach for WSN localization for underground coal mine monitoring using improved RSSI technique, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 225-231. DOI: 10.18280/mmep.050314
15	Hamdi M., Belhorma H.A., Benchatti A., Souici M., Boutassouna B.	The relaxation effect on residual stress value in butt-welded X70 steel	Welding, Residual Stresses, Relaxation, Steel X70, Sinq 2 Method.	5, 3, 232-236	10.18280/mmep.050315	Hamdi M., Belhorma H.A., Benchatti A., Souici M., Boutassouna B. (2018). The relaxation effect on residual stress value in butt-welded X70 steel, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 232-236. DOI: 10.18280/mmep.050315
16	Camaraza-Medina Y., Rubio-Gonzales Á.M., Cruz-Fonticiella O.M., García-Morales O.F.	Simplified analysis of heat transfer through a finned tube bundle in air cooled condenser	Airflow, Heat Transfer Coefficient, Fins Tube Bank.	5, 3, 237-242	10.18280/mmep.050316	Camaraza-Medina Y., Rubio-Gonzales Á.M., Cruz-Fonticiella O.M., García-Morales O.F. (2018). Simplified analysis of heat transfer through a finned tube bundle in air cooled condenser, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 237-242. DOI: 10.18280/mmep.050316
17	Amiri E.O.	Application of computational experiments based on the response surface methodology for studying of the recirculation zone in the Y-shaped channe	CFD, Computational Experiments, Recirculation Length, Y-shape.	5, 3, 243-248	10.18280/mmep.050317	Amiri E.O. (2018). Application of computational experiments based on the response surface methodology for studying of the recirculation zone in the Y-shaped channe, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 243-248. DOI: 10.18280/mmep.050317
18	Tripathy D.P., Harish Y.N.	Prevention of illegal transportation using ANPR and biometric fingerprint in mining industry	Automatic Number Plate Recognition, Mining, Finger Print, Microcontroller, Gabor Filter.	5, 3, 249-255	10.18280/mmep.050318	Tripathy D.P., Harish Y.N. (2018). Prevention of illegal transportation using ANPR and biometric fingerprint in mining industry, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 249-255. DOI: 10.18280/mmep.050318

19	Karthik G., Jayanthu S.	Selection of suitable location and method for installation of TDR in opencast mine-an experimental approach	Time Domain Reflectometry (TDR), Hangwall, Footwall, Joint Survey.	5, 3, 256-259	10.18280/mmep.050319	Karthik G., Jayanthu S. (2018). Selection of suitable location and method for installation of TDR in opencast mine-an experimental approach, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 256-259. DOI: 10.18280/mmep.050319
20	Jha B.K., Yusuf T.S.	Transient pressure driven flow in an annulus partially filled with porous material: Azimuthal pressure gradient	Annulus, Circumferential Pressure Gradient, Porous Material, Riemann-Sum Approximation, Azimuthal Pressure Gradient.	5, 3, 260-267	10.18280/mmep.050320	Jha B.K., Yusuf T.S. (2018). Transient pressure driven flow in an annulus partially filled with porous material: Azimuthal pressure gradient, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 260-267. DOI: 10.18280/mmep.050320
21	Magrini A., Lazzari S., Marengo L., Guazzi G.	Cost optimal analysis of energy refurbishment actions depending on the local climate and its variations	Building Energy Performance, Building Refurbishment, Cost Optimal Methodology.	5, 3, 268-274	10.18280/mmep.050321	Magrini A., Lazzari S., Marengo L., Guazzi G. (2018). Cost optimal analysis of energy refurbishment actions depending on the local climate and its variations, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 268-274. DOI: 10.18280/mmep.050321
22	Youssef A.M.	Operations of electric vehicle traction system	Electric Vehicle, Four Quadrant Operation, BLDC Motor, Drive System, Rechargeable Energy Storage System, Regenerative Braking.	5, 2, 51-57	10.18280/mmep.050201	Youssef A.M. (2018). Operations of electric vehicle traction system, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 51-57. DOI: 10.18280/mmep.050201
23	Ike C.C.	Energy formulation for flexural – torsional buckling of thin-walled column with open cross- section	Flexural – torsional Buckling, Thin-walled Columns with Open Cross-sections, Energy Formulation, Euler – lagrange Differential Equation.	5, 2, 58-66	10.18280/mmep.050202	Ike C.C. (2018). Energy formulation for flexural – torsional buckling of thin-walled column with open cross-section, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 58-66. DOI: 10.18280/mmep.050202
24	Halber A., Chakravarty D.	Wireless relay placement optimization in underground room and pillar mines	Graph Theory, Mining Engineering, Combinatorial Optimization, Wireless Infrastructure, WSNs.	5, 2, 67-75	10.18280/mmep.050203	Halber A., Chakravarty D. (2018). Wireless relay placement optimization in underground room and pillar mines, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 67-75. DOI: 10.18280/mmep.050203
25	Camaraza-Medina Y., Khandy N.H., Carlson K.M., Cruz-Fonticiella O.M., García-Morales O.F., Reyes-Cabrera D.	Evaluation of condensation heat transfer in air-cooled condenser by dominant flow criteria	Flow Criteria, Condensation, Deviation, Heat Transfer.	5, 2, 76-82	10.18280/mmep.050204	Camaraza-Medina Y., Khandy N.H., Carlson K.M., Cruz-Fonticiella O.M., García-Morales O.F., Reyes-Cabrera D. (2018). Evaluation of condensation heat transfer in air-cooled condenser by dominant flow criteria, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 76-82. DOI: 10.18280/mmep.050204
26	Ike C.C.	Flexural analysis of rectangular kirchhoff plate on winkler foundation using galerkin-vlasov variational method	Galerkin-Vlasov Variational Method, Kirchhoff Plate, Winkler Foundation.	5, 2, 83-92	10.18280/mmep.050205	Ike C.C. (2018). Flexural analysis of rectangular kirchhoff plate on winkler foundation using galerkin-vlasov variational method, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 83-92. DOI: 10.18280/mmep.050205
27	Halber A., Chakravarty D.	Investigation of wireless tracking performance in the tunnel-like environment with particle filter	Indoor Localization, Particle Filter, Monte Carlo Localization, Wireless Positioning, Underground Tracking.	5, 2, 93-101	10.18280/mmep.050206	Halber A., Chakravarty D. (2018). Investigation of wireless tracking performance in the tunnel-like environment with particle filter, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 93-101. DOI: 10.18280/mmep.050206
28	Yu H.	Numerical simulation of European option payoff based on stochastic differential delay equations	Stochastic Differential Delay Equations, European Option Payoff, Euler-Maruyama Method, Monte Carlo Method.	5, 2, 102-107	10.18280/mmep.050207	Yu H. (2018). Numerical simulation of European option payoff based on stochastic differential delay equations, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 102-107. DOI: 10.18280/mmep.050207
29	Avchar A., Choudhary B.S., Budi G., Sawaiker U.G.	Effect of rock properties on rippability of laterite in Iron Ore mines of Goa	Rippability, Ripper Performance, Laterite, Rock Properties.	5, 2, 108-115	10.18280/mmep.050208	Avchar A., Choudhary B.S., Budi G., Sawaiker U.G. (2018). Effect of rock properties on rippability of laterite in Iron Ore mines of Goa, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 108-115. DOI: 10.18280/mmep.050208
30	Bala R.J., Govinda R.M., Murthy C.S.N.	Reliability analysis and failure rate evaluation of load haul dump machines using Weibull distribution analysis	Weibull Distribution, Maintenance, Reliability, Failure Rate, LHD.	5, 2, 116-122	10.18280/mmep.050209	Bala R.J., Govinda R.M., Murthy C.S.N. (2018). Reliability analysis and failure rate evaluation of load haul dump machines using Weibull distribution analysis, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 116-122. DOI: 10.18280/mmep.050209
31	Vasanthakumari R., Pandy P.	Mixed convection of silver and titanium dioxide nanofluids along inclined stretching sheet in presence of MHD with heat generation and suction effect	Nanofluids, Inclined Stretching Sheet, HAM, MHD.	5, 2, 123-129	10.18280/mmep.050210	Vasanthakumari R., Pandy P. (2018). Mixed convection of silver and titanium dioxide nanofluids along inclined stretching sheet in presence of MHD with heat generation and suction effect, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 123-129. DOI: 10.18280/mmep.050210
32	Nwoji C.U., Onah H.N., Mama B.O., Ike C.C.	Ritz variational method for bending of rectangular kirchhoff plate under transverse hydrostatic load distribution	Ritz Variational Method, Kirchhoff Plate, Hydrostatic Load Distribution.	5, 1, 1-10	10.18280/mmep.050101	Nwoji C.U., Onah H.N., Mama B.O., Ike C.C. (2018). Ritz variational method for bending of rectangular kirchhoff plate under transverse hydrostatic load distribution, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 1-10. DOI: 10.18280/mmep.050101
33	Elbeltagy A.E.H.M., Youssef A.M., Bayoumy A.M., Elhalwagy Y.Z.	Fixed ground-target tracking control of satellites using a nonlinear model predictive control	C/GMRES Method, Ground-target Tracking, Image Quality, Optimization, Predictive Control.	5, 1, 11-20	10.18280/mmep.050102	Elbeltagy A.E.H.M., Youssef A.M., Bayoumy A.M., Elhalwagy Y.Z. (2018). Fixed ground-target tracking control of satellites using a nonlinear model predictive control, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 11-20. DOI: 10.18280/mmep.050102
34	Wang X.R., Ren G.L., Zhang J.X.	Numerical simulation and optimization analysis of thermal balance of heavy oil box-type substation louver arrangement	Box-type Substation, Louver Arrangement, Optimization Analysis, Thermal Equilibrium Analysis.	5, 1, 21-26	10.18280/mmep.050103	Wang X.R., Ren G.L., Zhang J.X. (2018). Numerical simulation and optimization analysis of thermal balance of heavy oil box-type substation louver arrangement, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 21-26. DOI: 10.18280/mmep.050103
35	Dzimunya N., Radhe K., William C.M.	Design and dimensioning of sublevel stoping for extraction of thin ore (< 12 m) at very deep level: a case study of konkola copper mines (kcm), Zambia	Stope, Instability of Stope, Numerical Modelling, Empirical Analysis and Productivity.	5, 1, 27-32	10.18280/mmep.050104	Dzimunya N., Radhe K., William C.M. (2018). Design and dimensioning of sublevel stoping for extraction of thin ore (< 12 m) at very deep level: a case study of konkola copper mines (kcm), Zambia, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 27-32. DOI: 10.18280/mmep.050104
36	Ike C.C.	Exponential fourier integral transform method for stress analysis of boundary load on soil	Exponential Fourier Transform Method, Compatibility Equation, Differential Equation of Equilibrium, Elastic Half Plane Problem.	5, 1, 33-39	10.18280/mmep.050105	Ike C.C. (2018). Exponential fourier integral transform method for stress analysis of boundary load on soil, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 33-39. DOI: 10.18280/mmep.050105

37	Kezza M., Tabet I., Chieul M, Nafir N., Khentout A.	Analytical investigation of heat transfer of solar air collector by Adomian decomposition method	Solar Air Collector, Thermal Efficiency, Analytic Solution, Decomposition Method Adomian.	5, 1, 40-45	10.18280/mmep.050106	Kezza M., Tabet I., Chieul M, Nafir N., Khentout A. (2018). Analytical investigation of heat transfer of solar air collector by Adomian decomposition method, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 40-45. DOI: 10.18280/mmep.050106
38	Song S.L.	Application of gray prediction and linear programming model in economic management	Gray Prediction, Linear Programming Model, Technical Progress, Investment Benefit.	5, 1, 46-50	10.18280/mmep.050107	Song S.L. (2018). Application of gray prediction and linear programming model in economic management, <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 46-50. DOI: 10.18280/mmep.050107