No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	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, *Mathematical Modelling of Engineering Problems*, Vol. 5, No. 1, pp. 1-10. DOI: 10.18280/mmep.050101
2	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, *Mathematical Modelling of Engineering Problems*, Vol. 5, No. 1, pp. 11-20. DOI: 10.18280/mmep.050102
3	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, *Mathematical Modelling of Engineering Problems*, Vol. 5, No. 1, pp. 21-26. DOI: 10.18280/mmep.050103
4	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, *Mathematical Modelling of Engineering Problems*, Vol. 5, No. 1, pp. 27-32. DOI: 10.18280/mmep.050104
5	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, *Mathematical Modelling of Engineering Problems*, Vol. 5, No. 1, pp. 33-39. DOI: 10.18280/mmep.050105
6	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, *Mathematical Modelling of Engineering Problems*, Vol. 5, No. 1, pp. 40-45. DOI: 10.18280/mmep.050106
7	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, *Mathematical Modelling of Engineering Problems*, Vol. 5, No. 1, pp. 46-50. DOI: 10.18280/mmep.050107
1	Tirmizi S.T., Tirmizi S.R.U.H.	Hierarchical linear modelling of risk assessment of petroleum installations	Hierarchical Linear Modelling, Oil and Gas Industry, Risk Assessment.	4, 4, 139-144	10.18280/mmep.040401	Tirmizi S.T., Tirmizi S.R.U.H. (2017). Hierarchical linear modelling of risk assessment of petroleum installations, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 4, pp. 139-144. DOI: 10.18280/mmep.040401
2	Ike C.C.	Flexural Analysis of Kirchhoff plates on Winkler foundations using finite Fourier sine integral transform method	Finite Fourier Sine Transform Method, Kirchhoff Plate, Winkler Foundation, Navier'S Double Trigonometric Series Method, Boundary Value Problem.	4, 4, 145-154	10.18280/mmep.040402	Ike C.C. (2017). Flexural Analysis of Kirchhoff plates on Winkler foundations using finite Fourier sine integral transform method, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 4, pp. 145-154. DOI: 10.18280/mmep.040402
3	BalaRaju J., Raj M.G., Murthy Ch S.N.	Evaluation of influential measures to control the monetary aspects of load haul dump machine-case study	Machine Failure, Acquisition Value, Operating Price, Renovation Cost, Disposal or Scrap Price, Lifestyles Cycle Cost.	4, 4, 155-161	10.18280/mmep.040403	BalaRaju J., Raj M.G., Murthy Ch S.N. (2017). Evaluation of influential measures to control the monetary aspects of load haul dump machine-case study, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 4, pp. 155-161. DOI: 10.18280/mmep.040403

4	Medina Y.C., Fonticiella O.M.C., Morales O.F.G.	Design and modelation of piping systems by means of use friction factor in the transition turbulent zone	Explicit Equation, Darcy Friction Factor, Flow in Pipes, Pipe Diameter.	4, 4, 162-167	10.18280/mmep.040404	Medina Y.C., Fonticiella O.M.C., Morales O.F.G. (2017). Design and modelation of piping systems by means of use friction factor in the transition turbulent zone, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 4, pp. 162-167. DOI: 10.18280/mmep.040404
5	Oni M.O., Yusuf T.S.	Unsteady couette flow in an annulus with combined mode of magnetic field application: A generalization	Transverse Magnetic Field, Radial Magnetic Field, Annulus, Unsteady, Couette Flow.	4, 4, 168-172	10.18280/mmep.040405	Oni M.O., Yusuf T.S. (2017). Unsteady couette flow in an annulus with combined mode of magnetic field application: A generalization, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 4, pp. 168-172. DOI: 10.18280/mmep.040405
6	Qu W.X., Xie Y.H., Shen Y., Han J., You M.Y., Zhu T.	Simulation on the effects of various factors on the motion of ultrasonic cavitation bubble	Ultrasonic Cavitation, Cavitation Bubble, Bubble Radius, Ultrasonic Frequency, Ultrasonic Amplitude.	4, 4, 173-178	10.18280/mmep.040406	Qu W.X., Xie Y.H., Shen Y., Han J., You M.Y., Zhu T. (2017). Simulation on the effects of various factors on the motion of ultrasonic cavitation bubble, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 4, pp. 173-178. DOI: 10.18280/mmep.040406
7	Wang C.L., Wang Q.Y., Cao Y.P.	Blind source separation of indoor mobile voice sources	Mobile Voice Sources, Reverberation, Blind Source Separation, Natural Gradient, Independent Component Analysis.	4, 4, 179-183	10.18280/mmep.040407	Wang C.L., Wang Q.Y., Cao Y.P. (2017). Blind source separation of indoor mobile voice sources, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 4, pp. 179-183. DOI: 10.18280/mmep.040407
8	Sen G.D., Sharma J., Goyal G.R., Singh A.K.	A Multi-objective PSO (MOPSO) algorithm for optimal active power dispatch with pollution control	Optimal Power Dispatch, Swarm Intelligence, Particle Swarm Optimization (PSO), Multi-objective PSO (MOPSO), Pareto-front Technique.	4, 3, 113-119	10.18280/mmep.040301	Sen G.D., Sharma J., Goyal G.R., Singh A.K. (2017). A Multi-objective PSO (MOPSO) algorithm for optimal active power dispatch with pollution control, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 3, pp. 113-119. DOI: 10.18280/mmep.040301
9	Ghernaout B., Ghernaout D., Bouabdallah S., Atia A.	Two transitions of thermosolutal natural convection in the presence of an external magnetic field	Thermosolutal Natural Convection (TSNC), Magnetic Field (MF), Oscillatory Flows, Onset Flow, Buoyancy Ratio.	4, 3, 120-125	10.18280/mmep.040302	Ghernaout B., Ghernaout D., Bouabdallah S., Atia A. (2017). Two transitions of thermosolutal natural convection in the presence of an external magnetic field, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 3, pp. 120-125. DOI: 10.18280/mmep.040302
10	Medina Y.C., Khandy N.H., Fonticiella O.M.C., Morales O.F.G.	Abstract of heat transfer coefficient modelation in single-phase systems inside pipes	Average Coefficient, Heat Transfer, Model, Regression.	4, 3, 126-131	10.18280/mmep.040303	Medina Y.C., Khandy N.H., Fonticiella O.M.C., Morales O.F.G. (2017). Abstract of heat transfer coefficient modelation in single-phase systems inside pipes, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 3, pp. 126-131. DOI: 10.18280/mmep.040303
11	Sharma A., Goyal G.R.	Solution of an ELD problem with valve-point effect using artificial intelligence techniques	Valve-point Effect, Cuckoo Search Method (CS), Modified PSO (MPSO).	4, 3, 132-137	10.18280/mmep.040304	Sharma A., Goyal G.R. (2017). Solution of an ELD problem with valve-point effect using artificial intelligence techniques, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 3, pp. 132-137. DOI: 10.18280/mmep.040304
12	Sun K., Li Y.P., Roy U.	A PLM-based data analytics approach for improving product development lead time in an engineer-to-order manufacturing firm	CRISP-DM, Engineer-to-order (ETO), Model-based Optimization, Prescriptive Analytics, Product Lifecycle Management (PLM).	4, 2, 69-74	10.18280/mmep.040201	Sun K., Li Y.P., Roy U. (2017). A PLM-based data analytics approach for improving product development lead time in an engineer-to-order manufacturing firm, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 2, pp. 69-74. DOI: 10.18280/mmep.040201
13	Pal M., Sarkar G., Barai R.K., Roy T.	Design of different reference model based model reference adaptive controller for inversed model non-minimum phase system	Lyapunov Stability Theory, Model Reference Adaptive Control, Non-Minimum Phase System, Reference Model.	4, 2, 75-79	10.18280/mmep.040202	Pal M., Sarkar G., Barai R.K., Roy T. (2017). Design of different reference model based model reference adaptive controller for inversed model non-minimum phase system, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 2, pp. 75-79. DOI: 10.18280/mmep.040202
14	Das A., Deb K., Bajerjee S., Bag R.	A new method for tutorial gap identification towards students modeling	ICT, OBE, Tutorial, Gap, Students Modeling.	4, 2, 80-83	10.18280/mmep.040203	Das A., Deb K., Bajerjee S., Bag R. (2017). A new method for tutorial gap identification towards students modeling, *Mathematical Modelling of Engineering Problems* , Vol. 4, No. 2, pp. 80-83. DOI: 10.18280/mmep.040203

15	Banerjee S., Ghosh A., Mitra S.K.	A modified mathematical model for lifetime enhancement in wireless sensor network	Relay Nodes, Sleep-mode Nodes, Network Lifetime, Lbeera, Pegasis, Short, HDS, Mathematical Models.	4, 2, 84-90	10.18280/mmep.040204	Banerjee S., Ghosh A., Mitra S.K. (2017). A modified mathematical model for lifetime enhancement in wireless sensor network, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 2, pp. 84-90. DOI: 10.18280/mmep.040204
16	Dutta P., Kumar A.	Intelligent calibration technique using optimized fuzzy logic controller for ultrasonic flow sensor	Ultrasonic Flow Transducer, Flow Measurement, Sensor Modelling, Fuzzy Logic Controller, Optimization.	4, 2, 91-94	10.18280/mmep.040205	Dutta P., Kumar A. (2017). Intelligent calibration technique using optimized fuzzy logic controller for ultrasonic flow sensor, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 2, pp. 91-94. DOI: 10.18280/mmep.040205
17	Sanyal S., Hossain S., Dhar S., Sanyal A.N.	Computer-aided analysis of saturation in synchronous machines	Saturation, Grapho-analytical Technique, Exponential Method, Frolich's Equation, Method of Least Square.	4, 2, 95-99	10.18280/mmep.040206	Sanyal S., Hossain S., Dhar S., Sanyal A.N. (2017). Computer-aided analysis of saturation in synchronous machines, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 2, pp. 95-99. DOI: 10.18280/mmep.040206
18	Yin H., Cam L.L., Roy U.	Formation control for multiple unmanned aerial vehicles in constrained space using modified artificial potential field	Formation Control, Collision Avoidance, Artificial Potential Field, UAV.	4, 2, 100-105	10.18280/mmep.040207	Yin H., Cam L.L., Roy U. (2017). Formation control for multiple unmanned aerial vehicles in constrained space using modified artificial potential field, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 2, pp. 100-105. DOI: 10.18280/mmep.040207
19	Paul G., Patra P.	Prediction of tangential force and maximum temperature generation at the tool tip using ANFIS model during CNC turning operations for an intricate shape	CNC Turning, Tangential Force, Tool Tip Temperature, L8 Orthogonal Array.	4, 2, 106-112	10.18280/mmep.040208	Paul G., Patra P. (2017). Prediction of tangential force and maximum temperature generation at the tool tip using ANFIS model during CNC turning operations for an intricate shape, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 2, pp. 106-112. DOI: 10.18280/mmep.040208
20	Wu M.H.	CUSUM tests for change points in AR(P) models	Change Points, CUSUM Test, Asymptotic Distribution, AR(P) Processes.	4, 2, 113-116	10.18280/mmep.040209	Wu M.H. (2017). CUSUM tests for change points in AR(P) models, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 2, pp. 113-116. DOI: 10.18280/mmep.040209
21	Bensaci C.E., Labed A., Zellouf M., Moummi A.	Numerical study of natural convection in an inclined enclosure: application to flat plate solar collectors	Natural Convection, Solar Air Flat Plate Collector, Inclined Enclosure, Flow Mode Transition, Flow Patterns.	4, 1, 1-6	10.18280/mmep.040101	Bensaci C.E., Labed A., Zellouf M., Moummi A. (2017). Numerical study of natural convection in an inclined enclosure: application to flat plate solar collectors, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 1-6. DOI: 10.18280/mmep.040101
22	Zaoui F.Z., Hanifi H.A., Abderahman L.Y., Mustapha M.H., Abdelouahed T., Djamel O.	Free vibration analysis of functionally graded beams using a higher-order shear deformation theory	Analytical Modeling, Beam, Functionally Graded Material, Natural Frequencies, Free Vibration.	4, 1, 7-12	10.18280/mmep.040102	Zaoui F.Z., Hanifi H.A., Abderahman L.Y., Mustapha M.H., Abdelouahed T., Djamel O. (2017). Free vibration analysis of functionally graded beams using a higher-order shear deformation theory, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 7-12. DOI: 10.18280/mmep.040102
23	Wang J.G., Wang X.R., Ren G.L., Xiang K.	Effect of ambient condition on n-heptane droplet evaporation	Evaporation, Single Droplet, N-Heptane, Ambient Pressure, Flow Intensity.	4, 1, 13-17	10.18280/mmep.040103	Wang J.G., Wang X.R., Ren G.L., Xiang K. (2017). Effect of ambient condition on n-heptane droplet evaporation, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 13-17. DOI: 10.18280/mmep.040103
24	Fouad B., Mohamed B.B., Ahmed B., Abdelouahed T., El-abess A.B.	Static analysis of P-FGM beams resting on the Winkler elastic foundations	P-FGM Beams, Winkler Elastic Foundation, Neutral Surface, Bending, Higher-order Theory.	4, 1, 18-22	10.18280/mmep.040104	Fouad B., Mohamed B.B., Ahmed B., Abdelouahed T., El-abess A.B. (2017). Static analysis of P-FGM beams resting on the Winkler elastic foundations, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 18-22. DOI: 10.18280/mmep.040104
25	Melik B., Iezid M., Goumeidane F., Legouera M.	Structure and mechanical properties of steels for thermochemical treatment	Thermo-chemical Treatment, Mechanical Properties, Steel.	4, 1, 23-25	10.18280/mmep.040105	Melik B., Iezid M., Goumeidane F., Legouera M. (2017). Structure and mechanical properties of steels for thermochemical treatment, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 23-25. DOI: 10.18280/mmep.040105
26	Aziz H.A., Aroua M.K., Yusoff R., Abas N.A., Idris Z., Hsassan H.A.	Mathematical modelling using response surface methodology for optimization of the operating conditions for esteramine production aided by solid catalyst	Esteramine, Transesterification, Methyl Palmitate, Heterogeneous Catalyst, Esterquats.	4, 1, 26-32	10.18280/mmep.040106	Aziz H.A., Aroua M.K., Yusoff R., Abas N.A., Idris Z., Hsassan H.A. (2017). Mathematical modelling using response surface methodology for optimization of the operating conditions for esteramine production aided by solid catalyst, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 26-32. DOI: 10.18280/mmep.040106

27	Belhadj A., Boukhalfa A., Belalia S.A.	Free vibration modelling of Single-walled Carbon Nanotubes using the Differential Quadrature Method	Free Vibration, Carbon Nanotubes, Natural Frequency, Non-local Elasticity, Differential Quadrature Method, Euler-Bernoulli.	4, 1, 33-37	10.18280/mmep.040107	Belhadj A., Boukhalfa A., Belalia S.A. (2017). Free vibration modelling of Single-walled Carbon Nanotubes using the Differential Quadrature Method, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 33-37. DOI: 10.18280/mmep.040107
28	Fedali S., Madani H.	Azeotropic points with relative volatility-prediction and calculation	Equation of State, Mixing Rules, Excess Free Energy, Azeotrope, Relative Volatility.	4, 1, 38-42	10.18280/mmep.040108	Fedali S., Madani H. (2017). Azeotropic points with relative volatility-prediction and calculation, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 38-42. DOI: 10.18280/mmep.040108
29	Mourad D., el Hedj O., Rachid L., Ahmed M.	Experimental characterization of the Heat Affected Zone (HAZ) properties of 100Cr6 steel joined by rotary friction welding method	Rotary Friction Welding, HAZ, 100Cr6 Steel, Microstructure, Hardness.	4, 1, 43-47	10.18280/mmep.040109	Mourad D., el Hedj O., Rachid L., Ahmed M. (2017). Experimental characterization of the Heat Affected Zone (HAZ) properties of 100Cr6 steel joined by rotary friction welding method, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 43-47. DOI: 10.18280/mmep.040109
30	Chen J.L., Dong D.S., Qiao Z.	Non-circular crane rail theory and parametric design	Clothoid Spiral, Rail Theory, Parametric Design, Adams Simulation.	4, 1, 48-52	10.18280/mmep.040110	Chen J.L., Dong D.S., Qiao Z. (2017). Non-circular crane rail theory and parametric design, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 48-52. DOI: 10.18280/mmep.040110
31	Ali B.M., Bouiadjera B.B., Chikh E.B.O., Elmeguenni M.	The effect of the plastic instability on the behavior of an amorphous polymere	Amorphous Polymer, Damage, Mechanical Behavior, Modeling.	4, 1, 53-58	10.18280/mmep.040111	Ali B.M., Bouiadjera B.B., Chikh E.B.O., Elmeguenni M. (2017). The effect of the plastic instability on the behavior of an amorphous polymere, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 53-58. DOI: 10.18280/mmep.040111
32	Houria H.S., Bariza Z., Djamel H., Hocine B.	DMFC water management in presence of heat sources	DMFC, Methanol, Heat Source, Temperature, FORTRAN.	4, 1, 59-62	10.18280/mmep.040112	Houria H.S., Bariza Z., Djamel H., Hocine B. (2017). DMFC water management in presence of heat sources, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 59-62. DOI: 10.18280/mmep.040112
33	Liu B.L., Xu X.W.	Optimal reactive power planning considering the adjustment coefficient of generator excitation system	Reactive Power Optimal Planning, Excitation System Adjustment Coefficient, Benders Decomposition.	4, 1, 63-67	10.18280/mmep.040113	Liu B.L., Xu X.W. (2017). Optimal reactive power planning considering the adjustment coefficient of generator excitation system, *Mathematical Modelling of Engineering Problems*, Vol. 4, No. 1, pp. 63-67. DOI: 10.18280/mmep.040113
1	Zhang L., Zhang T.D., Gao R., Tang D.Y., Yang J.Y., Fu T.L., Zhan Z.L.	Phenol adsorption property of high specific surface areas biomass based porous carbon materials	Chinese Herb Residue, Porous Carbon, Specific Surface Area, Phenol, Adsorption.	3, 4, 157-161	10.18280/mmep.030401	Zhang L., Zhang T.D., Gao R., Tang D.Y., Yang J.Y., Fu T.L., Zhan Z.L. (2016). Phenol adsorption property of high specific surface areas biomass based porous carbon materials, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 4, pp. 157-161. DOI: 10.18280/mmep.030401
2	Alam M.S.	Mathematical modelling for natural convective heat transfer of nanofluid inside a prismatic enclosure with various thermal boundary conditions	Modelling, Nanofluid, Natural Convection, Prismatic Enclosure, Finite Element Method.	3, 4, 162-170	10.18280/mmep.030402	Alam M.S. (2016). Mathematical modelling for natural convective heat transfer of nanofluid inside a prismatic enclosure with various thermal boundary conditions, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 4, pp. 162-170. DOI: 10.18280/mmep.030402
3	Ma L.	Bare hands threshing stress analysis and bionics bare hand threshing device test	Bionics, Seed Corn, Stress Analysis, Test, Broken Rate, Removal Rate.	3, 4, 171-174	10.18280/mmep.030403	Ma L. (2016). Bare hands threshing stress analysis and bionics bare hand threshing device test, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 4, pp. 171-174. DOI: 10.18280/mmep.030403
4	Huang Z.D., Liu X.J., Tan Y.S.	An empirical study: integrating relative coordinates with simulated annealing to solve a traveling salesman problem	Simulated Annealing Method, Traveling Salesman Problem, City's Relative Coordinates.	3, 4, 175-178	10.18280/mmep.030404	Huang Z.D., Liu X.J., Tan Y.S. (2016). An empirical study: integrating relative coordinates with simulated annealing to solve a traveling salesman problem, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 4, pp. 175-178. DOI: 10.18280/mmep.030404
5	Lin H.B., Li Q., Ding R.	Simulation study on stress intensity factors of surface crack of hollow axle	Hollow Axle, Surface Crack, Stress Intensity Factor, Finite Element.	3, 4, 179-183	10.18280/mmep.030405	Lin H.B., Li Q., Ding R. (2016). Simulation study on stress intensity factors of surface crack of hollow axle, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 4, pp. 179-183. DOI: 10.18280/mmep.030405

6	Liu L., Shi Y.G., Long Y., Zhao J.Z., Chen J., Cui Y.J.	Greenhouse environment inspection vehicle control system design based on ZigBee	ZigBee, Z-Stack, Data Acquisition, Button Control, Serial Port Control.	3, 4, 184-190	10.18280/mmep.030406	Liu L., Shi Y.G., Long Y., Zhao J.Z., Chen J., Cui Y.J. (2016). Greenhouse environment inspection vehicle control system design based on ZigBee, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 4, pp. 184-190. DOI: 10.18280/mmep.030406
7	Mohammed B., Ali B.	Modeling the problem of contact and friction between a body elastic and rigid foundation	Mechanical Contact, Friction, Methods of Contact, Finite Elements.	3, 4, 191-194	10.18280/mmep.030407	Mohammed B., Ali B. (2016). Modeling the problem of contact and friction between a body elastic and rigid foundation, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 4, pp. 191-194. DOI: 10.18280/mmep.030407
8	Seddak M., Liazid A.	The effects of using a biofuel on the performance of a marine diesel engine	Diesel Engine, CHEMKIN, Bio-Fuel.	3, 4, 195-197	10.18280/mmep.030408	Seddak M., Liazid A. (2016). The effects of using a biofuel on the performance of a marine diesel engine, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 4, pp. 195-197. DOI: 10.18280/mmep.030408
9	Rahima M., Said M.	Detection of the micro defects on the transparent optical materials by the topographic moiré	Non-Destructive Controlling, Microscopic Defects, Diffraction, Moiré Fringes, Transparent Surface.	3, 4, 198-201	10.18280/mmep.030409	Rahima M., Said M. (2016). Detection of the micro defects on the transparent optical materials by the topographic moiré, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 4, pp. 198-201. DOI: 10.18280/mmep.030409
10	Ahmed B., Fouad B., Djalil B.A., Mohamed B.B., Abdelouahed T., Bedia E.A.	The thermal study of wave propagation in functionally graded material plates (FGM) based on neutral surface position	Wave Propagation, P-FGM Plate, Thermal Effects, Higher Order Theory, Neutral Surface Position.	3, 4, 202-205	10.18280/mmep.030410	Ahmed B., Fouad B., Djalil B.A., Mohamed B.B., Abdelouahed T., Bedia E.A. (2016). The thermal study of wave propagation in functionally graded material plates (FGM) based on neutral surface position, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 4, pp. 202-205. DOI: 10.18280/mmep.030410
11	Liu Y.Y., Xiao N., Wen F.J.	Study of architectural shading system based on BIPV	BIPV, Photovoltaic Shading, Automatic Control.	3, 3, 115-118	10.18280/mmep.030301	Liu Y.Y., Xiao N., Wen F.J. (2016). Study of architectural shading system based on BIPV, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 3, pp. 115-118. DOI: 10.18280/mmep.030301
12	Alam M.S.	Mathematical modelling for the effects of thermophoresis and heat generation/absorption on MHD convective flow along an inclined stretching sheet in the presence of Dufour-Soret effects	Modelling, Hydromagnetic, Thermophoresis, Heat and Mass Transfer, Inclined Stretching Sheet, Heat Generation/Absorption, Dufour-Soret Effects.	3, 3, 119-128	10.18280/mmep.030302	Alam M.S. (2016). Mathematical modelling for the effects of thermophoresis and heat generation/absorption on MHD convective flow along an inclined stretching sheet in the presence of Dufour-Soret effects, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 3, pp. 119-128. DOI: 10.18280/mmep.030302
13	Wang T.C., Xie Y.Z., Yan H.	Research of multi sensor information fusion technology based on extension neural network	Multi-Sensor Information Fusion, Extension Theory, Extension Neural Network, Fire Detection.	3, 3, 129-134	10.18280/mmep.030303	Wang T.C., Xie Y.Z., Yan H. (2016). Research of multi sensor information fusion technology based on extension neural network, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 3, pp. 129-134. DOI: 10.18280/mmep.030303
14	Wang T.C., Xie Y.Z.	BP-GA data fusion algorithm studies oriented to smart home	Data Fusion, Smart Home, BP Neural Network, Genetic Algorithm, Wireless Sensor Network.	3, 3, 135-140	10.18280/mmep.030304	Wang T.C., Xie Y.Z. (2016). BP-GA data fusion algorithm studies oriented to smart home, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 3, pp. 135-140. DOI: 10.18280/mmep.030304
15	Wang T.C., Hu X.X., Zhong S.S., Zhang Y.J.	Research on extension knowledge base system for scheme design of mechanical product	Bearing, KBS, Extension Theory, Metamodeling, Press-Fit Force Module.	3, 3, 141-145	10.18280/mmep.030305	Wang T.C., Hu X.X., Zhong S.S., Zhang Y.J. (2016). Research on extension knowledge base system for scheme design of mechanical product, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 3, pp. 141-145. DOI: 10.18280/mmep.030305
16	Chen C., Sun Y.G., Dong D.S., Tian T.	Design of magnetic levitation ball control based on co-simulation of SIMULINK and ADAMS	Magnetic Levitation Ball, MATLAB/SIMULINK, ADAMS, PID Controller, Real-Time Monitoring.	3, 3, 146-150	10.18280/mmep.030306	Chen C., Sun Y.G., Dong D.S., Tian T. (2016). Design of magnetic levitation ball control based on co-simulation of SIMULINK and ADAMS, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 3, pp. 146-150. DOI: 10.18280/mmep.030306
17	Wang J., Yang L., Xu Z.Z., Zhong R., Wu G.H., Zhang X.X., Li X.J., Xie Y.H., Zhu T.	Numerical simulation on underwater explosion in small-sized containers	Autodyn, Shockwave, Simulation, Underwater Explosion.	3, 3, 151-156	10.18280/mmep.030307	Wang J., Yang L., Xu Z.Z., Zhong R., Wu G.H., Zhang X.X., Li X.J., Xie Y.H., Zhu T. (2016). Numerical simulation on underwater explosion in small-sized containers, *Mathematical Modelling of Engineering Problems* , Vol. 3, No. 3, pp. 151-156. DOI: 10.18280/mmep.030307

18	Tang L., Chen M.J.	Image denoising method using the gradient matching pursuit	Image Denoising, The Gradient, Matching Pursuit, Sparse Decomposition.	3, 2, 53-56	10.18280/mmep.030201	Tang L., Chen M.J. (2016). Image denoising method using the gradient matching pursuit, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 53-56. DOI: 10.18280/mmep.030201
19	Meng R., Zhang C.Y., Wang J.K., Li T.K., Cui Q.M.	UG8.0 in the simple application of automatic shoes-washing machine design	UG8.0, Reverse Design, The Design of Automatic Shoes-Washing Machine, Simulation, Keyshot5.0.	3, 2, 57-62	10.18280/mmep.030202	Meng R., Zhang C.Y., Wang J.K., Li T.K., Cui Q.M. (2016). UG8.0 in the simple application of automatic shoes-washing machine design, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 57-62. DOI: 10.18280/mmep.030202
20	Wu P., Ma Q.H., Zhu J., Liang H.Y.	The review of the application of magneto-rheological fluid and engineering	MRF, Polishing, Damper, Brake.	3, 2, 63-66	10.18280/mmep.030203	Wu P., Ma Q.H., Zhu J., Liang H.Y. (2016). The review of the application of magneto-rheological fluid and engineering, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 63-66. DOI: 10.18280/mmep.030203
21	Yang Y.X., Zhang C.Y., Huang Y.W., Guo Y.S., Xu J.Y.	The design and research of a creative automatic bouncing socket	Socket, Structure, Automatic bouncing, Convenient, Safety.	3, 2, 67-70	10.18280/mmep.030204	Yang Y.X., Zhang C.Y., Huang Y.W., Guo Y.S., Xu J.Y. (2016). The design and research of a creative automatic bouncing socket, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 67-70. DOI: 10.18280/mmep.030204
22	Chen H.	Analysis of numerical simulation of wading landslide in Three Gorges Reservoir area based on Outang Landslide	Landslide, Seep/W Finite Element Flow Analysis Module, Slope/W Stability Analysis, Water Level.	3, 2, 71-74	10.18280/mmep.030205	Chen H. (2016). Analysis of numerical simulation of wading landslide in Three Gorges Reservoir area based on Outang Landslide, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 71-74. DOI: 10.18280/mmep.030205
23	Huang T.Z., Zhang D.J., Zhai D.H., Ma Q.H., Sheng Y.Y.	An analysis for the body of economy power racing car based on double platform of the XFLOW and FLUENT	Economy Power Racing Car, Aerodynamics, Light Weight, Carbon Fiber Composite.	3, 2, 75-80	10.18280/mmep.030206	Huang T.Z., Zhang D.J., Zhai D.H., Ma Q.H., Sheng Y.Y. (2016). An analysis for the body of economy power racing car based on double platform of the XFLOW and FLUENT, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 75-80. DOI: 10.18280/mmep.030206
24	Cui Y.F., Zhang Q.X., Han W.G., Zhao D.D.	Fatigue life analysis of spur gears with precise tooth profile surfaces	Plane Engagement Principle, Precise Model, The Maximum Stress Position, Fatigue Analysis.	3, 2, 81-86	10.18280/mmep.030207	Cui Y.F., Zhang Q.X., Han W.G., Zhao D.D. (2016). Fatigue life analysis of spur gears with precise tooth profile surfaces, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 81-86. DOI: 10.18280/mmep.030207
25	Zhao F.J., Yan Q., Li B., Xie J.M.	Workspace analysis of an over-constrained 2-RPU&SPR parallel manipulator	Over-Constrained Mechanism, Workspace, Simulation Analysis.	3, 2, 87-90	10.18280/mmep.030208	Zhao F.J., Yan Q., Li B., Xie J.M. (2016). Workspace analysis of an over-constrained 2-RPU&SPR parallel manipulator, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 87-90. DOI: 10.18280/mmep.030208
26	Zhao S., Xu Z.Y., Zhong J.C., Sun K.X.	The application of shaped charge blasting technology in open-pit mine	Shaped Charge, Broken, Large Chunk, Numerical Simulation.	3, 2, 91-95	10.18280/mmep.030209	Zhao S., Xu Z.Y., Zhong J.C., Sun K.X. (2016). The application of shaped charge blasting technology in open-pit mine, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 91-95. DOI: 10.18280/mmep.030209
27	Zhang L., Deng K.H., Wang Z.Q.	The research on properties of high count doubling fabrics in home textiles	Doubling Yarn, Plied Yarn, Breaking Strength, Abrasion Resistance, Pilling Resistance, Air Permeability, Friction.	3, 2, 96-100	10.18280/mmep.030210	Zhang L., Deng K.H., Wang Z.Q. (2016). The research on properties of high count doubling fabrics in home textiles, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 96-100. DOI: 10.18280/mmep.030210
28	Wang X.P.	Effect analysis of industrial structure of the border trade development in Inner Mongolia	Inner Mongolia Border Trade, Industrial Structure, Effect.	3, 2, 101-107	10.18280/mmep.030211	Wang X.P. (2016). Effect analysis of industrial structure of the border trade development in Inner Mongolia, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 101-107. DOI: 10.18280/mmep.030211
29	Reddy A.P., Manjula S.H., Sateesha C., Bujurke N.M.	Haar wavelet approach for the solution of seventh order ordinary differential equations	Collocation Method, Haar Wavelets, Quasilinearization Technique, Seventh Order Ordinary Differential Equations.	3, 2, 108-114	10.18280/mmep.030212	Reddy A.P., Manjula S.H., Sateesha C., Bujurke N.M. (2016). Haar wavelet approach for the solution of seventh order ordinary differential equations, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 2, pp. 108-114. DOI: 10.18280/mmep.030212

30	Alam M.S., Islam T., Uddin M.J.	Mathematical modelling for heat transfer of a micropolar fluid along a permeable stretching/shrinking wedge with heat generation/absorption	Modelling, Hydromagnetic, Shrinking/Stretching Wedge, Heat Generation/Absorption.	3, 1, 1-9	10.18280/mmep.030101	Alam M.S., Islam T., Uddin M.J. (2016). Mathematical modelling for heat transfer of a micropolar fluid along a permeable stretching/shrinking wedge with heat generation/absorption, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 1-9. DOI: 10.18280/mmep.030101
31	Feng Y.J.	The finite element analysis and optimization of ø 6000 Disc Pelletize's Disk	ø6000 Disc Pelletizer, Plate Body, Finite Element, Analysis, Optimization.	3, 1, 10-18	10.18280/mmep.030102	Feng Y.J. (2016). The finite element analysis and optimization of ø6000 Disc Pelletize's Disk, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 10-18. DOI: 10.18280/mmep.030102
32	Xia J., Xiao L., Wan L.P.	Application of random-fuzzy probability statistics method	Slope Engineering, Probability and Statistics, Membership, Weights, Fuzzy Evaluation.	3, 1, 19-24	10.18280/mmep.030103	Xia J., Xiao L., Wan L.P. (2016). Application of random-fuzzy probability statistics method, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 19-24. DOI: 10.18280/mmep.030103
33	Hu L.J., Tang L., Pan Q., Song H., Wen P.G.	Research and analysis of PI control strategy based on neural network in power grid	Neural Network, Harmonic Wave, PI Control, Active Power Filter.	3, 1, 25-28	10.18280/mmep.030104	Hu L.J., Tang L., Pan Q., Song H., Wen P.G. (2016). Research and analysis of PI control strategy based on neural network in power grid, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 25-28. DOI: 10.18280/mmep.030104
34	Deng Q.Z., Chen R.	Research and application of coupling system model in China's financial eco-system analysis	Coupling System Model, Financial Eco-System, Coordinated Development.	3, 1, 29-34	10.18280/mmep.030105	Deng Q.Z., Chen R. (2016). Research and application of coupling system model in China's financial eco-system analysis, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 29-34. DOI: 10.18280/mmep.030105
35	Li Y.Z., Liu Z., Ma Z.Q.	Analog circuit based on the shock pulse method and its application in fault diagnosis of bearing	The Shock Pulse Method, Analog Circuit, Judgment Criterion of Bearing State, Fault Diagnosis.	3, 1, 35-38	10.18280/mmep.030106	Li Y.Z., Liu Z., Ma Z.Q. (2016). Analog circuit based on the shock pulse method and its application in fault diagnosis of bearing, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 35-38. DOI: 10.18280/mmep.030106
36	Feng Y.J.	Research and development of universal mechanical CAD system based on auto CAD	Mechanical CAD, Secondary Development, 2D Graphic Entity, Drawing Settings, Dimensioning.	3, 1, 39-46	10.18280/mmep.030107	Feng Y.J. (2016). Research and development of universal mechanical CAD system based on auto CAD, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 39-46. DOI: 10.18280/mmep.030107
37	Zhang W., Du X.Z., Yang L.J., Yang Y.P.	Research on performance of finned tube bundles of indirect air-cooled heat exchangers	Indirect Air Cooling Heat Exchanger, Four-Row Finned Tube Bundles, Flow and Heat Transfer Performance, Numerical Simulation.	3, 1, 47-51	10.18280/mmep.030108	Zhang W., Du X.Z., Yang L.J., Yang Y.P. (2016). Research on performance of finned tube bundles of indirect air-cooled heat exchangers, *Mathematical Modelling of Engineering Problems*, Vol. 3, No. 1, pp. 47-51. DOI: 10.18280/mmep.030108