

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Lops, C., Germano, N., Ricciutelli, A., D' Alessandro, V., Montelpare, S.	Naturally Ventilated Double Skin Façades: Comparisons Between Different CFD Models	CFD modelling, Double Skin Façade, naturally ventilated façade, turbulence model	8, 6, 837-846	https://doi.org/10.18280/mmep.080601	Lops, C., Germano, N., Ricciutelli, A., D' Alessandro, V., Montelpare, S. (2021). Naturally ventilated double skin façades: Comparisons between different CFD models. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 837-846. https://doi.org/10.18280/mmep.080601
2	Maliqi, F., Klaiqi, B.	A Criterion for Determining the Optimal Position of the Demodulate-and-Forward (DMF) Relay	cooperative communications, relay selection, fixed relay position, wireless networks, demodulate-and-forward (DMF)	8, 6, 847-853	https://doi.org/10.18280/mmep.080602	Maliqi, F., Klaiqi, B. (2021). A criterion for determining the optimal position of the Demodulate-and-Forward (DMF) relay. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 847-853. https://doi.org/10.18280/mmep.080602
3	El-Wahed Khalifa, H.A., Kumar, P., Alodhabi, S.S.	Stochastic Multi-Objective Programming Problem: A Two-Phase Weighted Coefficient Approach	chance-constrained programming, compromise index, multi-objective programming, pareto optimal solution, two-phase approach	8, 6, 854-860	https://doi.org/10.18280/mmep.080603	El-Wahed Khalifa, H.A., Kumar, P., Alodhabi, S.S. (2021). Stochastic multi-objective programming problem: A two-phase weighted coefficient approach. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 854-860. https://doi.org/10.18280/mmep.080603
4	Prakash, S.V.J., Dhal, P.K.	Modelling and Analysis of Solar and Wind System Adequacy Assessment and Cost Optimization	reliability, cost optimization, loss of load expectation, Roy Billinton test system, solar and wind	8, 6, 861-870	https://doi.org/10.18280/mmep.080604	Prakash, S.V.J., Dhal, P.K. (2021). Modelling and analysis of solar and wind system adequacy assessment and cost optimization. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 861-870. https://doi.org/10.18280/mmep.080604
5	Zheldakov, D., Mustafin, R., Kozlov, V., Gaysin, A., Sinitin, D., Bulatov, B.	Durability Control of Brickwork's Material Including Operation Parameters of the Building Enclosure	reliability, cost optimization, loss of load expectation, Roy Billinton test system, solar and wind	8, 6, 871-880	https://doi.org/10.18280/mmep.080605	Zheldakov, D., Mustafin, R., Kozlov, V., Gaysin, A., Sinitin, D., Bulatov, B. (2021). Durability control of brickwork's material including operation parameters of the building enclosure. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 871-880. https://doi.org/10.18280/mmep.080605
6	Hamoodi, A.S.	Logistic Regression Model to Investigate the Risk Factors for Glaucoma	ethnicity, logistic regression model, risk factors, statistical analysis	8, 6, 881-887	https://doi.org/10.18280/mmep.080606	Hamoodi, A.S. (2021). Logistic regression model to investigate the risk factors for glaucoma. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 881-887. https://doi.org/10.18280/mmep.080606
7	Rueda-Bayona, J.G., Gil, L., Calderón, J.M.	CFD-FEM Modeling of a Floating Foundation under Extreme Hydrodynamic Forces Generated by Low Sea States	CFD, FEM, hydrodynamics, hydromechanics, offshore, TLP	8, 6, 888-896	https://doi.org/10.18280/mmep.080607	Rueda-Bayona, J.G., Gil, L., Calderón, J.M. (2021). CFD-FEM modeling of a floating foundation under extreme hydrodynamic forces generated by low sea states. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 888-896. https://doi.org/10.18280/mmep.080607
8	Thamer, L., Shaia, H.	The Effect of Geotextile Layers and Configuration on Soil Bearing Capacity	bearing capacity, woven geotextile, silty sand soil, plate load test, configuration effect, square footing, model tests, reinforcement	8, 6, 897-904	https://doi.org/10.18280/mmep.080608	Thamer, L., Shaia, H. (2021). The effect of geotextile layers and configuration on soil bearing capacity. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 897-904. https://doi.org/10.18280/mmep.080608
9	Al Bkoor Alrawasbdeh, K., Al-Zhoon, K.K., Al Qodah, Z.	Modeling and Investigation of Multistage Flash-Mixing Brine in Aqaba City, Jordan	desalination, MSF desalination, mixing brine, desalination plant design, dimension	8, 6, 905-914	https://doi.org/10.18280/mmep.080609	Al Bkoor Alrawasbdeh, K., Al-Zhoon, K.K., Al Qodah, Z. (2021). Modeling and investigation of multistage flash-mixing brine in Aqaba City, Jordan. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 905-914. https://doi.org/10.18280/mmep.080609
10	Nasser, A.R., Mahmood, A.M.	Cloud-Based Parkinson's Disease Diagnosis Using Machine Learning	cloud computing, artificial intelligence, machine learning, deep learning, feature selection, Parkinson's disease	8, 6, 915-922	https://doi.org/10.18280/mmep.080610	Nasser, A.R., Mahmood, A.M. (2021). Cloud-based Parkinson's disease diagnosis using machine learning. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 915-922. https://doi.org/10.18280/mmep.080610
11	Mohammed, A.K., Irzooki, R.H., Jamel, A.A., Mohammed-Ali, W.S., Abbas, S.S.	Cloud-Based Parkinson's Disease Diagnosis Using Machine Learning	critical depth, normal depth, circular channel, dimensional analysis, statistical analysis	8, 6, 923-927	https://doi.org/10.18280/mmep.080611	Mohammed, A.K., Irzooki, R.H., Jamel, A.A., Mohammed-Ali, W.S., Abbas, S.S. (2021). Novel approach to computing critical and normal depth in circular channels. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 923-927. https://doi.org/10.18280/mmep.080611
12	Ezzidani, A., Ouamou, A., Hanini, M., Tahir, A.B.	A SMDP Approach to Evaluate the Performance of a Vehicular Cloud Computing System with Prioritize Requests	iterative approach, priority of service requests, semi-Markov decision policy, vehicular cloud, Vehicular Cloud Computing	8, 6, 928-936	https://doi.org/10.18280/mmep.080612	Ezzidani, A., Ouamou, A., Hanini, M., Tahir, A.B. (2021). A SMDP approach to evaluate the performance of a vehicular cloud computing system with prioritize requests. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 928-936. https://doi.org/10.18280/mmep.080612
13	Tuhvatullin, M., Arkhangelsky, Y., Aipov, R., Khasanov, E.	Ultra High-Frequency Electric Installation with a Hybrid-Type Working Chamber	electric installation, hybrid-type working chamber, non-thermal and thermal UHF modification, UHF electromagnetic field	8, 6, 937-944	https://doi.org/10.18280/mmep.080613	Tuhvatullin, M., Arkhangelsky, Y., Aipov, R., Khasanov, E. (2021). Ultra high-frequency electric installation with a hybrid-type working chamber. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 937-944. https://doi.org/10.18280/mmep.080613
14	Jaaz, H.A.G., Naser, A.F., Mohammed, H.A., Mohammed, A.A.	Ultra High-Frequency Electric Installation with a Hybrid-Type Working Chamber	optimization, evaluation, safety, pier form, earthquake, demand, capacity, yielding point	8, 6, 945-954	https://doi.org/10.18280/mmep.080614	Jaaz, H.A.G., Naser, A.F., Mohammed, H.A., Mohammed, A.A. (2021). Earthquake resistance optimization and evaluation of bridge piers structural form and dimensions based on demand to capacity ratio and yielding points of force-displacement. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 945-954. https://doi.org/10.18280/mmep.080614
15	Kemparaju, M.C., Lavanya, B., Nandeppanavar, M.M., Raveendra, N.	Heat Transfer Exploration of MHD Flow Stream with Changing Viscosity and Thermal Conductivity due to Expandable Surface	MHD, variable viscosity, variable thermal conductivity, stretching sheet	8, 6, 955-960	https://doi.org/10.18280/mmep.080615	Kemparaju, M.C., Lavanya, B., Nandeppanavar, M.M., Raveendra, N. (2021). Heat transfer exploration of MHD flow stream with changing viscosity and thermal conductivity due to expandable surface. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 955-960. https://doi.org/10.18280/mmep.080615
16	Aziz, H.Y., Sultan, H.K., Abbas, B.J.	Simulation and Style Design of Bridge Stability Supported on Large Diameter Piles	bridge engineering, AASHTO code, SAP analysis, piles	8, 6, 961-966	https://doi.org/10.18280/mmep.080616	Aziz, H.Y., Sultan, H.K., Abbas, B.J. (2021). Simulation and style design of bridge stability supported on large diameter piles. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 961-966. https://doi.org/10.18280/mmep.080616
17	Akeremle, C.O., Olajin, O.A., Yeak, S.H.	H-Adaptive Finite Element Methods for 1D Stationary High Gradient Boundary Value Problems	adaptivity, advection, fine region, finite element method, high-gradient	8, 6, 967-973	https://doi.org/10.18280/mmep.080617	Akeremle, C.O., Olajin, O.A., Yeak, S.H. (2021). H-adaptive finite element methods for 1D stationary high gradient boundary value problems. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 967-973. https://doi.org/10.18280/mmep.080617
18	Naeem, S.M., Faidh-Allah, M.H.	Forward Kinematic and Jacobian Matrix for the Prosthetic Human Finger Actuated by Links	Denvit-Hartenberg method, Jacobian method, kinematic, prosthetic finger, Solidwork program	8, 6, 974-978	https://doi.org/10.18280/mmep.080618	Naeem, S.M., Faidh-Allah, M.H. (2021). Forward kinematic and Jacobian matrix for the prosthetic human finger actuated by links. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 974-978. https://doi.org/10.18280/mmep.080618
19	Odah, M.H.	Comparison of GARCH & ARMA Models to Forecasting Exchange Rate	GARCH, ARMA, financial time series, heteroskedasticity	8, 6, 979-983	https://doi.org/10.18280/mmep.080619	Odah, M.H. (2021). Comparison of GARCH & ARMA models to forecasting exchange rate. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 979-983. https://doi.org/10.18280/mmep.080619
20	Kumar, S., Dixit, A.S.	A Miniaturized CSRR Loaded 2-Element MIMO Antenna for LTE Band	Complimentary Split-Ring Resonator (CSRR), long term evolution (LTE) band, miniaturized, multiple-input multiple-output (MIMO)	8, 6, 984-988	https://doi.org/10.18280/mmep.080620	Kumar, S., Dixit, A.S. (2021). A miniaturized CSRR loaded 2-element MIMO antenna for LTE band. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 6, pp. 984-988. https://doi.org/10.18280/mmep.080620
21	Mollah, M.T., Rasmussen, H.K., Poddar, S., Islam, M.M., Parvine, M., Alam, M.M., Lorenzini, G.	Ion-Slip Effects on Bingham Fluid Flowing Through an Oscillatory Porous Plate with Suction	MHD, heat transfer, Bingham fluid, suction, oscillatory porous plate, finite difference method	8, 5, 673-681	https://doi.org/10.18280/mmep.080501	Mollah, M.T., Rasmussen, H.K., Poddar, S., Islam, M.M., Parvine, M., Alam, M.M., Lorenzini, G. (2021). Ion-slip effects on Bingham fluid flowing through an oscillatory porous plate with suction. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 673-681. https://doi.org/10.18280/mmep.080501
22	Youssef, A., Bayoumy, A.M., Atia, M.R.A.	Investigation of Using ANN and Stereovision in Delta Robot for Pick and Place Applications	parallel robot, delta robot, neural networks, artificial intelligence, pick and place, forward kinematics, inverse kinematics	8, 5, 682-688	https://doi.org/10.18280/mmep.080502	Youssef, A., Bayoumy, A.M., Atia, M.R.A. (2021). Investigation of using ANN and stereovision in delta robot for pick and place applications. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 682-688. https://doi.org/10.18280/mmep.080502

23	Koth, M.S., Sharawy, A., Mohie El-Din, M.M.	E-Bayesian Estimation for Kumaraswamy Distribution Using Progressive First Failure Censoring	E-Bayesian estimation, Kumaraswamy distribution, progressive first failure censored, Monte Carlo simulation	8, 5, 689-702	https://doi.org/10.18280/mmep.080503	Koth, M.S., Sharawy, A., Mohie El-Din, M.M. (2021). E-Bayesian estimation for Kumaraswamy distribution using progressive first failure censoring. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 689-702. https://doi.org/10.18280/mmep.080503
24	Tahiri, A., Mansouri, K., Rahmani, K., Kouadri, A., Douroum, E.	Analytical Solution of Non-Newtonian Nanofluid Flows Within Circular Duct under Convective Boundary Condition	variational method, convective boundary conditions, non-Newtonian nanofluids, viscous dissipation, circular duct	8, 5, 703-714	https://doi.org/10.18280/mmep.080504	Tahiri, A., Mansouri, K., Rahmani, K., Kouadri, A., Douroum, E. (2021). Analytical solution of non-Newtonian nanofluid flows within circular duct under convective boundary condition. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 703-714. https://doi.org/10.18280/mmep.080504
25	Devianti, Jayanti, D.S., Amrida, N., Sitoua, A., Thamren, D.S.	Potential Hydroelectric Power Plant for a Remote Area Utilizing Subwatershed Laws-Simpali	appropriate technology, electricity, energy, natural resources, rural communities, water	8, 5, 715-720	https://doi.org/10.18280/mmep.080505	Devianti, Jayanti, D.S., Amrida, N., Sitoua, A., Thamren, D.S. (2021). Potential Hydroelectric power plant for a remote area utilizing subwatershed Laws-simpali. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 715-720. https://doi.org/10.18280/mmep.080505
26	Ershkov, S., Leshchenko, D.	Revisiting Glacier Dynamics for Stationary Approximation of Plane-Parallel Creeping Flow	basal slip, creeping flow, critical maximal level of stress, glacier dynamics, glacial ice, non-Newtonian fluid, viscous-plastic flow	8, 5, 721-726	https://doi.org/10.18280/mmep.080506	Ershkov, S., Leshchenko, D. (2021). Revisiting glacier dynamics for stationary approximation of plane-parallel creeping flow. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 721-726. https://doi.org/10.18280/mmep.080506
27	Escandón-Panchana, P., Morante-Carballo, F., Herrera-Franco, G., Pineda, E., Yagual, J.	Computer Application to Estimate PVT Conditions in Oil Wells in the Ecuadorian Amazon	computer application, mathematical correlations, physical properties of oil, PVT estimate	8, 5, 727-738	https://doi.org/10.18280/mmep.080507	Escandón-Panchana, P., Morante-Carballo, F., Herrera-Franco, G., Pineda, E., Yagual, J. (2021). Computer application to estimate PVT conditions in oil wells in the Ecuadorian Amazon. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 727-738. https://doi.org/10.18280/mmep.080507
28	Alam, N., Poddar, S., Karim, M.E., Hasan, M.S., Lorenzini, G.	Transient MHD Radiative Fluid Flow over an Inclined Porous Plate with Thermal and Mass Diffusion: An EFDN Numerical Approach	MHD, inclined porous plate, heat and mass diffusion, Soret effect, Dufour effect	8, 5, 739-749	https://doi.org/10.18280/mmep.080508	Alam, N., Poddar, S., Karim, M.E., Hasan, M.S., Lorenzini, G. (2021). Transient MHD radiative fluid flow over an inclined porous plate with thermal and mass diffusion: An EFDN numerical approach. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 739-749. https://doi.org/10.18280/mmep.080508
29	Kusrini, E., Miranda, S.	Determining Performance Metrics of Supply Chain Management in Make-to-Order Small-Medium Enterprise Using Supply Chain Operation Reference Model (SCOR Version 12.0)	performance measurement, performance metric, SCOR 12, supply chain management	8, 5, 750-756	https://doi.org/10.18280/mmep.080509	Kusrini, E., Miranda, S. (2021). Determining performance metrics of supply chain management in make-to-order small-medium enterprise using Supply Chain Operation Reference model (SCOR Version 12.0). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 750-756. https://doi.org/10.18280/mmep.080509
30	Shubbar, M.M., Abdul-Rahaim, L.A., Hamad, A.A.	Cloud-Based Automated Power Factor Correction and Power Monitoring	cloud computing, power factor correction, APFC, IoT, neural networks, NodeMCU, Wi-Fi, computational	8, 5, 757-762	https://doi.org/10.18280/mmep.080510	Shubbar, M.M., Abdul-Rahaim, L.A., Hamad, A.A. (2021). Cloud-based automated power factor correction and power monitoring. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 757-762. https://doi.org/10.18280/mmep.080510
31	Fazli, M., Khabani, F.M., Daneshian, B.	Hybrid Whale and Genetic Algorithms with Fuzzy Values to Solve the Location Problem	fuzzy function, genetic algorithm, location problem, whale algorithm	8, 5, 763-768	https://doi.org/10.18280/mmep.080511	Fazli, M., Khabani, F.M., Daneshian, B. (2021). Hybrid whale and genetic algorithms with fuzzy values to solve the location problem. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 763-768. https://doi.org/10.18280/mmep.080511
32	Bhoopal, N., Rao, D.S.M., Narukullapati, B.K., Kasireddy, L., Kumar, D.G.	Selective Harmonic Elimination Based THD Minimization of a Symmetric 9-Level Inverter Using Ant Colony Optimization	THD, SHEPWM, ACO, multi-level inverter, optimization, symmetric inverter	8, 5, 769-774	https://doi.org/10.18280/mmep.080512	Bhoopal, N., Rao, D.S.M., Narukullapati, B.K., Kasireddy, L., Kumar, D.G. (2021). Selective harmonic elimination based THD minimization of a symmetric 9-level inverter using ant colony optimization. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 769-774. https://doi.org/10.18280/mmep.080512
33	Nguyen, D.N., Nguyen, T.A., Hoang, T.B., Dang, N.D.	Establishing the Method to Predict the Limited Roll Angle of the Vehicle Based on the Basic Dimensions	dynamic vehicle, rollover state function (RSF), roll angle, limit of rollover	8, 5, 775-779	https://doi.org/10.18280/mmep.080513	Nguyen, D.N., Nguyen, T.A., Hoang, T.B., Dang, N.D. (2021). Establishing the method to predict the limited roll angle of the vehicle based on the basic dimensions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 775-779. https://doi.org/10.18280/mmep.080513
34	Giuliano, A., Catizzone, E.	Modelling and Environmental Aspects of Direct or Indirect Dimethyl Ether Synthesis Using Digestate as Feedstock	digestate, gasification, dimethyl ether, process simulation, sustainability, carbon dioxide emission assessment, waste-to-chemicals	8, 5, 780-786	https://doi.org/10.18280/mmep.080514	Giuliano, A., Catizzone, E. (2021). Modelling and environmental aspects of direct or indirect dimethyl ether synthesis using digestate as feedstock. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 780-786. https://doi.org/10.18280/mmep.080514
35	Al-Awadi, A.T.	The Variation of Scour Depth near Vertical and Inclined Cylindrical Bridge Piers: An Experimental Study	scour depth, bridge piers, inclined piers, vertical piers, flow intensity, modified empirical formula	8, 5, 787-792	https://doi.org/10.18280/mmep.080515	Al-Awadi, A.T. (2021). The variation of scour depth near vertical and inclined cylindrical bridge piers: An experimental study. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 787-792. https://doi.org/10.18280/mmep.080515
36	Rizal, J., Gunawan, A.Y., Indratno, S.W., Meilano, I.	The Application of Copula Continuous Extension Technique for Bivariate Discrete Data: A Case Study on Dependence Modeling of Seismicity Data	continuous extension technique, dependence, copula model, Kendall's tau, random perturbation, earthquakes	8, 5, 793-804	https://doi.org/10.18280/mmep.080516	Rizal, J., Gunawan, A.Y., Indratno, S.W., Meilano, I. (2021). The application of copula continuous extension technique for bivariate discrete data: A case study on dependence modeling of seismicity data. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 793-804. https://doi.org/10.18280/mmep.080516
37	Ahmed, M.I.B., Rahman, A.U., Farooqui, M., Alamoudi, F., Baageel, R., Alqarni, A.	Early Identification of COVID-19 Using Dynamic Fuzzy Rule Based System	COVID-19, early identification, fuzzy rule-based system, dynamic membership function	8, 5, 805-812	https://doi.org/10.18280/mmep.080517	Ahmed, M.I.B., Rahman, A.U., Farooqui, M., Alamoudi, F., Baageel, R., Alqarni, A. (2021). Early identification of COVID-19 using dynamic fuzzy rule based system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 805-812. https://doi.org/10.18280/mmep.080517
38	Tavarov, S.S., Sidorov, A.I., Sultonov, O.O.	Modelling the Operating Mode of the Urban Electrical Network and Developing a Method for Managing These Modes	electrical networks, variable factors, voltage imbalance, network mode control device	8, 5, 813-818	https://doi.org/10.18280/mmep.080518	Tavarov, S.S., Sidorov, A.I., Sultonov, O.O. (2021). Modelling the operating mode of the urban electrical network and developing a method for managing these modes. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 813-818. https://doi.org/10.18280/mmep.080518
39	Lodhi, R.K., Jaiswal, B.R., Nandan, D., Ramesh, K.	Numerical Solution of Two-Parameter Singularly Perturbed Convection-Diffusion Boundary Value Problems via Fourth Order Compact Finite Difference Method	compact finite difference method, convection-diffusion, singular perturbation, two-parameter, uniform mesh	8, 5, 819-825	https://doi.org/10.18280/mmep.080519	Lodhi, R.K., Jaiswal, B.R., Nandan, D., Ramesh, K. (2021). Numerical solution of two-parameter singularly perturbed convection-diffusion boundary value problems via fourth order compact finite difference method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 819-825. https://doi.org/10.18280/mmep.080519
40	Al-Dabbas, M.A.A.	The Availability of Hybrid Nano Adsorption-Multi Stage Ejector Cooling Cycle with a Different Type of Steam Generator	solar cooling, ejector refrigeration, cop, multi-stage ejector, booster, steam jet ejector, adsorption refrigeration, geothermal, solar chimney, MATLAB, solid flow	8, 5, 826-836	https://doi.org/10.18280/mmep.080520	Al-Dabbas, M.A.A. (2021). The availability of hybrid nano adsorption-multi stage ejector cooling cycle with a different type of steam generator. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 5, pp. 826-836. https://doi.org/10.18280/mmep.080520
41	Mekhiche, H., Zirari, M., Lorenzini, G., Ahmad, H., Menni, Y., Ameer, H., Rebhi, R., Khalilpoor, N., Korichi, A.	Study of the Interfacial Dynamic Behavior During Slat Formation Alumina on Steel Substrate by FSI/VOF	alumina particle, finite element method, numerical simulation, interfacial dynamic behavior	8, 4, 493-500	https://doi.org/10.18280/mmep.080401	Mekhiche, H., Zirari, M., Lorenzini, G., Ahmad, H., Menni, Y., Ameer, H., Rebhi, R., Khalilpoor, N., Korichi, A. (2021). Study of the interfacial dynamic behavior during slat formation alumina on steel substrate by FSI/VOF. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 493-500. https://doi.org/10.18280/mmep.080401
42	Tarrad, A.H.	Borehole Thermal Analysis for a Closed Loop Vertical U-Tube DX Ground Heat Exchanger	borehole thermal resistance, sizing a U-Tube, equivalent diameter, geothermal energy source, R-410A	8, 4, 501-509	https://doi.org/10.18280/mmep.080402	Tarrad, A.H. (2021). Borehole thermal analysis for a closed loop vertical U-tube DX ground heat exchanger. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 501-509. https://doi.org/10.18280/mmep.080402
43	Khalidjigitov, A., Djumayozov, U., Sagdullaeva, D.	Numerical Solution of Coupled Thermo-Elastic-Plastic Dynamic Problems	thermoelasticity, displacement, temperature, stress, differential equation, explicit scheme, convergence	8, 4, 510-518	https://doi.org/10.18280/mmep.080403	Khalidjigitov, A., Djumayozov, U., Sagdullaeva, D. (2021). Numerical solution of coupled thermo-elastic-plastic dynamic problems. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 510-518. https://doi.org/10.18280/mmep.080403
44	Ben Salamah, M.J., Savsar, M.	Analyzing and Detecting Drifts in a Flowmeter by Discrete Fourier Transform	discrete Fourier transform (DFT), flowmeter, instrumentation, instrument drift, measurement quality, metrology	8, 4, 519-526	https://doi.org/10.18280/mmep.080404	Ben Salamah, M.J., Savsar, M. (2021). Analyzing and detecting drifts in a flowmeter by discrete Fourier transform. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 519-526. https://doi.org/10.18280/mmep.080404

45	UshaRani, R., Rajendran, L., Abukhaled, M.	Approximations for the Concentration and Effectiveness Factor in Porous Catalysts of Arbitrary Shape: Taylor Series and Akbari-Ganjji's Methods	mathematical modeling, nonlinear diffusion, reaction equation, Michaelis-Menten kinetic, Taylor series, Akbari-Ganjji's method	8, 4, 527-537	https://doi.org/10.18280/mmep.080405	UshaRani, R., Rajendran, L., Abukhaled, M. (2021). Approximations for the concentration and effectiveness factor in porous catalysts of arbitrary shape: Taylor Series and Akbari-Ganjji's methods. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 527-537. https://doi.org/10.18280/mmep.080405
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47	Mukhtar, Ali, M.K.B.M., Javaid, A., Ismail, M.T., Fudholi, A.	Accurate and Hybrid Regularization - Robust Regression Model in Handling Multicollinearity and Outlier Using SSC for Big Data	variable selection, regularization regression, robust regression, model selection, 8 selection criteria	8, 4, 547-556	https://doi.org/10.18280/mmep.080407	Mukhtar, Ali, M.K.B.M., Javaid, A., Ismail, M.T., Fudholi, A. (2021). Accurate and hybrid regularization - robust regression model in handling multicollinearity and outlier using SSC for big data. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 547-556. https://doi.org/10.18280/mmep.080407
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50	Muhammad, N.B., Sarfraz, M., Ghauri, S.A., Masood, S.	Optimized Polynomial Classifier for Classification of M-PSK Signals	automatic modulation classification, higher order cumulants, polynomial classifier, M-PSK, genetic algorithm	8, 4, 575-582	https://doi.org/10.18280/mmep.080410	Muhammad, N.B., Sarfraz, M., Ghauri, S.A., Masood, S. (2021). Optimized polynomial classifier for classification of M-PSK signals. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 575-582. https://doi.org/10.18280/mmep.080410
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52	Kaidassov, Z., Turkusheva, Z.S.	Algorithm for Calculating the Global Minimum of a Smooth Function of Several Variables	cubature formulas, absolute minimum, global minimum, extreme problem, optimisation problem	8, 4, 591-596	https://doi.org/10.18280/mmep.080412	Kaidassov, Z., Turkusheva, Z.S. (2021). Algorithm for calculating the global minimum of a smooth function of several variables. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 591-596. https://doi.org/10.18280/mmep.080412
53	Abdulkarim, A.H., Elewi, M.A., Tahseen, T.A., Canli, E.	Numerical Forced Convection Heat Transfer of Nanofluids over Back Facing Step and Through Heated Circular Grooves	back facing step, CFD, heat transfer, laminar, nanofluid, temperature distribution	8, 4, 597-610	https://doi.org/10.18280/mmep.080413	Abdulkarim, A.H., Elewi, M.A., Tahseen, T.A., Canli, E. (2021). Numerical forced convection heat transfer of nanofluids over back facing step and through heated circular grooves. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 597-610. https://doi.org/10.18280/mmep.080413
54	Poongkothai, J., Mahesh, S., Selvamani, R.	Modeling and Assessment of Rotation and Gravity in a Piezoelectric Viscothermoelastic Multilayered Composite LEMV/ CFRP Cylinder	thermoelasticity, multilayered cylinders, LEMV, CFRP, dual phase lag modeling	8, 4, 611-616	https://doi.org/10.18280/mmep.080414	Poongkothai, J., Mahesh, S., Selvamani, R. (2021). Modeling and assessment of rotation and gravity in a piezoelectric viscothermoelastic multilayered composite LEMV/ CFRP cylinder. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 611-616. https://doi.org/10.18280/mmep.080414
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56	Nofal, A.N., Assimi, A.N., Jaamour, Y.M.	Joint Power Allocation and Bit-Loading for Multicarrier Systems with Discrete Modulation	adaptive modulation, bit-loading, data rate maximization, discrete modulation, Hughes-Hartogs algorithm, multicarrier system, power allocation	8, 4, 626-634	https://doi.org/10.18280/mmep.080416	Nofal, A.N., Assimi, A.N., Jaamour, Y.M. (2021). Joint power allocation and bit-loading for multicarrier systems with discrete modulation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 626-634. https://doi.org/10.18280/mmep.080416
57	Aljassas, S.M., Kadhim, D.A., Habeeb, E.Y.	Two Numerical Methods (RO (MSuM) and RO (SuMSu)) for Triple Integrals with for Continuous Functions	triple Integrals, continuous functions, Mid-Point Rule, suggested method, Romberg accelerating	8, 4, 635-644	https://doi.org/10.18280/mmep.080417	Aljassas, S.M., Kadhim, D.A., Habeeb, E.Y. (2021). Two numerical methods (RO (MSuM) and RO (SuMSu)) for triple integrals with for continuous functions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 635-644. https://doi.org/10.18280/mmep.080417
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60	Al-Tajer, A.M., Kramallah, A.A., Mohsen, A.M., Mahmoud, N.S.	Experimental Investigation of Heat Transfer of Nanofluid in Elliptical and Circular Tubes	elliptical tube, Nusselt number, nanofluid, turbulent flow	8, 4, 665-671	https://doi.org/10.18280/mmep.080420	Al-Tajer, A.M., Kramallah, A.A., Mohsen, A.M., Mahmoud, N.S. (2021). Experimental investigation of heat transfer of nanofluid in elliptical and circular tubes. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 4, pp. 665-671. https://doi.org/10.18280/mmep.080420
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62	Ike, C.C.	Fourier Integral Transformation Method for Solving Two Dimensional Elasticity Problems in Plane Strain Using Love Stress Functions	Fourier integral method, two dimensional elasticity problem in plane strain, Love stress function, biharmonic stress compatibility equation	8, 3, 333-346	https://doi.org/10.18280/mmep.080302	Ike, C.C. (2021). Fourier integral transformation method for solving two dimensional elasticity problems in plane strain using love stress functions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 333-346. https://doi.org/10.18280/mmep.080302
63	Sharma, M., Soni, M.	A Finite Element Modeling and Simulation of Human Temporomandibular Joint with and Without TM Disorders: An Indian Experience	finite element analysis, TMJ, jaw joint, biomechanics, stress distribution, bruxism, clenching	8, 3, 347-355	https://doi.org/10.18280/mmep.080303	Sharma, M., Soni, M. (2021). A finite element modeling and simulation of human temporomandibular joint with and without TM disorders: An Indian experience. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 347-355. https://doi.org/10.18280/mmep.080303
64	Abdulsahib, A.D., Al-Farhany, K.	Review of the Effects of Stationary/Rotating Cylinder in a Cavity on the Convection Heat Transfer in Porous Media with/without Nanofluid	mixed convection, nanofluid, porous medium, two layers, circular cylinder, rotating cylinder	8, 3, 356-364	https://doi.org/10.18280/mmep.080304	Abdulsahib, A.D., Al-Farhany, K. (2021). Review of the effects of stationary/rotating cylinder in a cavity on the convection heat transfer in porous media with/without nanofluid. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 356-364. https://doi.org/10.18280/mmep.080304
65	Yendra, R., Hanaisih, I.S., Fudholi, A.	Power Bayesian Markov Chain Monte Carlo (MCMC) for Modelling Extreme Temperatures in Sumatra Island Using Generalised Extreme Value (GEV) and Generalised Logistic (GLO) Distributions	MCMC, extreme value distribution, generalised logistic distribution, maximum temperature	8, 3, 365-376	https://doi.org/10.18280/mmep.080305	Yendra, R., Hanaisih, I.S., Fudholi, A. (2021). Power Bayesian Markov Chain Monte Carlo (MCMC) for modelling extreme temperatures in Sumatra Island using generalised extreme value (GEV) and generalised logistic (GLO) distributions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 365-376. https://doi.org/10.18280/mmep.080305
66	Sakaliuk, O.Y., Trishyn, F.A.	Mathematical Model and Efficiency of Courses Timetable Creation Process	automation, automated control system, control object, identification, optimality criterion, Pareto compromise, scheduling	8, 3, 377-385	https://doi.org/10.18280/mmep.080306	Sakaliuk, O.Y., Trishyn, F.A. (2021). Mathematical model and efficiency of courses timetable creation process. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 377-385. https://doi.org/10.18280/mmep.080306

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69	Nouar, F.S., Oukli, M., Khadraoui, M.	New Irregular Mesh Technique Used in Three-Dimensional Simulation of Relaxation Semiconductor	finite difference method, Gummel's algorithm, Newton's algorithm, geometric series transport equations, recombination rate, relaxation time, lifetime	8, 3, 403-408	https://doi.org/10.18280/mmep.080309	Nouar, F.S., Oukli, M., Khadraoui, M. (2021). New irregular mesh technique used in three-dimensional simulation of relaxation semiconductor. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 403-408. https://doi.org/10.18280/mmep.080309
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72	Gorial, I.I.	Numerical Simulation for Fractional Percolation Equation	fractional derivative, explicit finite difference method (EFFDM), Fractional percolation equation (FPE), stability, convergence of numerical method	8, 3, 425-430	https://doi.org/10.18280/mmep.080312	Gorial, I.I. (2021). Numerical simulation for fractional percolation equation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 425-430. https://doi.org/10.18280/mmep.080312
73	Rueda-Bayona, J.G., Eras, J.J.C., Gutiérrez, A.S.	Modeling Wind Speed with a Long-Term Horizon and High-Time Interval with a Hybrid Fourier-Neural Network Model	Fourier analysis, nonlinear autoregressive network, wind potential, reanalysis, wind-speed	8, 3, 431-440	https://doi.org/10.18280/mmep.080313	Rueda-Bayona, J.G., Eras, J.J.C., Gutiérrez, A.S. (2021). Modeling wind speed with a long-term horizon and high-time interval with a hybrid Fourier-neural network model. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 431-440. https://doi.org/10.18280/mmep.080313
74	Khudair, R.A., Alkiffai, A.N., Sleibi, A.S.	Using T-Transformation for Solving Tank and Heating System Equations	fuzzy number, differential equation, Tarig transformation, fuzzy valued functions, fuzzy transformations	8, 3, 441-446	https://doi.org/10.18280/mmep.080314	Khudair, R.A., Alkiffai, A.N., Sleibi, A.S. (2021). Using T-transformation for solving tank and heating system equations. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 441-446. https://doi.org/10.18280/mmep.080314
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76	Adnan, S.A., Alchalaby, A., Hassan, H.A.	Future Optimization Algorithm to Estimate Attenuation in 532 nm Laser Beam of UWOC-Channel: Improved Neural Network Model	attenuation coefficients, ANN, classified ocean water, optimization, UWOC	8, 3, 453-460	https://doi.org/10.18280/mmep.080316	Adnan, S.A., Alchalaby, A., Hassan, H.A. (2021). Future optimization algorithm to estimate attenuation in 532 nm laser beam of UWOC-channel: Improved neural network model. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 3, pp. 453-460. https://doi.org/10.18280/mmep.080316
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81	Lorenzini, G., Kamarposhti, M.A., Solyman, A.A.A.	Optimal Location of Sectioners and Distributed Generation Resources to Improve Reliability in Distribution Networks	switching devices, distribution network, reliability, distributed generation, micro-grid, sectioner	8, 2, 165-169	https://doi.org/10.18280/mmep.080201	Lorenzini, G., Kamarposhti, M.A., Solyman, A.A.A. (2021). Optimal location of sectioners and distributed generation resources to improve reliability in distribution networks. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 165-169. https://doi.org/10.18280/mmep.080201
82	Ezekwesili, O.J.I., Agunwamba, J.C.	Mechanistic Mathematical Modelling of Pothole Development from Loss of Roadway Subsurface-Materials	mechanistic mathematical model, pothole, internal-erosion, loss of roadway subsurface materials, traffic load pressure, excess pore-water pressure, pumping out of particles	8, 2, 170-178	https://doi.org/10.18280/mmep.080202	Ezekwesili, O.J.I., Agunwamba, J.C. (2021). Mechanistic mathematical modelling of pothole development from loss of roadway subsurface-materials. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 170-178. https://doi.org/10.18280/mmep.080202
83	Chaudhury, R., Islam, S.	A Multi-Objective Risk Return Trade off Models for Banks: Fuzzy Programming Approach	interest rate risk, liquidity risk, duration, convexity, fuzzy programming	8, 2, 179-188	https://doi.org/10.18280/mmep.080203	Chaudhury, R., Islam, S. (2021). A multi-objective risk return trade off models for banks: Fuzzy programming approach. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 179-188. https://doi.org/10.18280/mmep.080203
84	Jhodkar, D., Khan, A., Gupta, K.	Fuzzy-MOORA Based Optimization of Machining Parameters for Machinability Enhancement of Titanium	fuzzy, machining, hybrid optimization, surface roughness, tool wear	8, 2, 189-198	https://doi.org/10.18280/mmep.080204	Jhodkar, D., Khan, A., Gupta, K. (2021). Fuzzy-MOORA based optimization of machining parameters for machinability enhancement of titanium. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 189-198. https://doi.org/10.18280/mmep.080204
85	Nguyen, T.A.	Control the Hydraulic Stabilizer Bar to Improve the Stability of the Vehicle When Steering	active stabilizer bar, hydraulic stabilizer bar, anti-roll moment, dynamics vehicle, rollover	8, 2, 199-206	https://doi.org/10.18280/mmep.080205	Nguyen, T.A. (2021). Control the hydraulic stabilizer bar to improve the stability of the vehicle when steering. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 199-206. https://doi.org/10.18280/mmep.080205
86	Kamisan, N.A.B., Lee, M.H., Hassan, S.F., Norulashikin, S.M., Nor, M.E., Rahman, N.H.A.	Forecasting Wind Speed Data by Using a Combination of ARIMA Model with Single Exponential Smoothing	ARIMA model, hybrid time series model, wind speed forecasting, wind energy	8, 2, 207-212	https://doi.org/10.18280/mmep.080206	Kamisan, N.A.B., Lee, M.H., Hassan, S.F., Norulashikin, S.M., Nor, M.E., Rahman, N.H.A. (2021). Forecasting wind speed data by using a combination of ARIMA model with single exponential smoothing. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 207-212. https://doi.org/10.18280/mmep.080206
87	Nandan, D., Mahajan, A., Kanungo, J.	An Efficient VLSI Architecture Design of Antilogarithm Converter with 10-Regions Error Correction Scheme	antilogarithmic converter, digital signal processing, error analysis, logarithmic converter, logarithmic multiplication, Mitchell method	8, 2, 213-218	https://doi.org/10.18280/mmep.080207	Nandan, D., Mahajan, A., Kanungo, J. (2021). An efficient VLSI architecture design of antilogarithm converter with 10-regions error correction scheme. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 213-218. https://doi.org/10.18280/mmep.080207
88	Slamti, A., Mehdaoui, Y., Chenouni, D., Lakhil, Z.	A Dual Frequency Compensation Technique to Improve Stability and Transient Response for a Three Stage Low-Drop-Out Linear Regulator	power management, system on a chip (SoC), Low-Drop-Out regulator (LDO), stability, minimum load current, transient load regulation, CMOS technology	8, 2, 219-229	https://doi.org/10.18280/mmep.080208	Slamti, A., Mehdaoui, Y., Chenouni, D., Lakhil, Z. (2021). A dual frequency compensation technique to improve stability and transient response for a three stage Low-Drop-Out linear regulator. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 219-229. https://doi.org/10.18280/mmep.080208

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90	Albaghdadi, A.M., Baharom, M.B., Sualiman, S.A.	Balancing and Simulation of a Double Crank-Rocker Engine Model for Optimum Reduction of Shaking Forces and Shaking Moments	Crank-Rocker (CR) engine, Double Crank-Rocker (DCR), engine vibration, four-bar mechanism, balancing	8, 2, 237-245	https://doi.org/10.18280/mmep.080210	Albaghdadi, A.M., Baharom, M.B., Sualiman, S.A. (2021). Balancing and simulation of a double crank-rocker engine model for optimum reduction of shaking forces and shaking moments. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 237-245. https://doi.org/10.18280/mmep.080210
91	Brahimi, T., Smain, T.	A Nonstationary Mathematical Model for Acceleration Time Series	autoregressive, nonstationary, stochastic, ductility, hysteretic	8, 2, 246-252	https://doi.org/10.18280/mmep.080211	Brahimi, T., Smain, T. (2021). A nonstationary mathematical model for acceleration time series. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 246-252. https://doi.org/10.18280/mmep.080211
92	Zebbar, D., Zebbar, S., Kheris, S., Mostefa, K.	Inert Gas and Refrigerating Vapor Mass Flow Rates Ratio: A Much Promising Parameter for Diffusion-Absorption-Refrigeration Systems Performances Evaluation	absorption, ammonia-water-hydrogen, diffusion, evaporator, propane - n-nonane, hydrogen, refrigerant	8, 2, 253-258	https://doi.org/10.18280/mmep.080212	Zebbar, D., Zebbar, S., Kheris, S., Mostefa, K. (2021). Inert gas and refrigerating vapor mass flow rates ratio: A much promising parameter for diffusion-absorption-refrigeration systems performances evaluation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 253-258. https://doi.org/10.18280/mmep.080212
93	Belfegas, B., Larbi, S., Tayebi, T.	Experimental and Theoretical Investigation on a Solar Chimney System for Ventilation of a Living Room	solar chimney, energy performances, passive ventilation, experimental study, numerical simulation	8, 2, 259-266	https://doi.org/10.18280/mmep.080213	Belfegas, B., Larbi, S., Tayebi, T. (2021). Experimental and theoretical investigation on a solar chimney system for ventilation of a living room. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 259-266. https://doi.org/10.18280/mmep.080213
94	Tahir, J.K.	Numerical Computations for One Class of Dynamical Mathematical Models in Quasi-Sobolev Space	dynamical mathematical models, quasi-Sobolev space, projection method, Hoff model, Barenblatt-Zhelov-Kochina model	8, 2, 267-272	https://doi.org/10.18280/mmep.080214	Tahir, J.K. (2021). Numerical computations for one class of dynamical mathematical models in quasi-Sobolev space. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 267-272. https://doi.org/10.18280/mmep.080214
95	Talaci, Y., Hossainzadeh, H., Nociaghdam, S.	A Finite Difference-Spectral Method for Solving the European Call Option Black-Scholes Equation	Black-Scholes equation, generalized Jacobi polynomials, backward-difference method, numerical solution	8, 2, 273-278	https://doi.org/10.18280/mmep.080215	Talaci, Y., Hossainzadeh, H., Nociaghdam, S. (2021). A finite difference-spectral method for solving the European call option Black-Scholes equation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 273-278. https://doi.org/10.18280/mmep.080215
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98	Elyazid, A., Koussaila, I., Djamal, A., Kaci, G.	Improved Control Strategy of DS-PMSG Based Standalone Tidal Turbine-System Using Sensorless Field Oriented Control	dual star permanent magnet synchronous generator, extended Kalman filter, field oriented control, fuzzy logic controller, marine current turbine	8, 2, 293-301	https://doi.org/10.18280/mmep.080218	Elyazid, A., Koussaila, I., Djamal, A., Kaci, G. (2021). Improved control strategy of DS-PMSG based standalone tidal turbine system using sensorless field oriented control. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 293-301. https://doi.org/10.18280/mmep.080218
99	Mostef, B., Kaddour, R., Mimoun, Y., Embarek, D., Amar, K.	Optimization of the Stability and Reliability of Rotor System by the Methodology of Design Experiments	Plakett-Burman, hydrodynamic bearings, stability, stiffness, gyroscopic forces, critical rotational speeds	8, 2, 302-314	https://doi.org/10.18280/mmep.080219	Mostef, B., Kaddour, R., Mimoun, Y., Embarek, D., Amar, K. (2021). Optimization of the stability and reliability of rotor system by the methodology of design experiments. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 302-314. https://doi.org/10.18280/mmep.080219
100	Laamari, Y., Allaoui, S., Bendaikha, A., Saad, S.	Fault Detection Between Stator Windings Turns of Permanent Magnet Synchronous Motor Based on Torque and Stator-Current Analysis Using FFT and Discrete Wavelet Transform	PMSM, fault detection, modeling, inter-turn short circuit, fast Fourier transform, discrete wavelet transform	8, 2, 315-322	https://doi.org/10.18280/mmep.080220	Laamari, Y., Allaoui, S., Bendaikha, A., Saad, S. (2021). Fault detection between stator windings turns of permanent magnet synchronous motor based on torque and stator-current analysis using FFT and discrete wavelet transform. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 2, pp. 315-322. https://doi.org/10.18280/mmep.080220
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102	Kamarposhti, M.A., Lorenzini, G., Solyman, A.A.A.	Locating and Sizing of Distributed Generation Sources and Parallel Capacitors Using Multiple Objective Particle Swarm Optimization Algorithm	distributed generation, parallel capacitors, voltage profile, loss reduction, MOPSO algorithm	8, 1, 10-24	https://doi.org/10.18280/mmep.080102	Kamarposhti, M.A., Lorenzini, G., Solyman, A.A.A. (2021). Locating and sizing of distributed generation sources and parallel capacitors using multiple objective particle swarm optimization algorithm. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 10-24. https://doi.org/10.18280/mmep.080102
103	Sahoo, S., Prusty, K.K., Mishra, S.	MHD Flow of Micropolar Fluid via Porous Medium Within the Rotating Frame of Reference	MHD flow, micropolar fluid, rotating frame, chemical reaction, porous medium	8, 1, 25-32	https://doi.org/10.18280/mmep.080103	Sahoo, S., Prusty, K.K., Mishra, S. (2021). MHD flow of micropolar fluid via porous medium within the rotating frame of reference. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 25-32. https://doi.org/10.18280/mmep.080103
104	Chaayra, T., Ben-azza, H., El Bouanani, F.	A Closed-Form Approximation to the Distribution for the Sum of Independent Non-identically Generalized Gamma Variates and Applications	average symbol error probability, average channel capacity, Fox's H-function, maximal-entrop combining, outage probability, probability density function, sum generalized gamma distribution	8, 1, 33-44	https://doi.org/10.18280/mmep.080104	Chaayra, T., Ben-azza, H., El Bouanani, F. (2021). A closed-form approximation to the distribution for the sum of independent non-identically generalized gamma variates and applications. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 33-44. https://doi.org/10.18280/mmep.080104
105	Kedar, S., Murali, G., Bewoor, A.K.	Mathematical Modelling and Analysis of Hybrid Solar Desalination System Using Evacuated Tube Collector (ETC) and Compound Parabolic Concentrator (CPC)	evacuated tube solar collector, compound parabolic concentrator, condenser, solar desalination system	8, 1, 45-51	https://doi.org/10.18280/mmep.080105	Kedar, S., Murali, G., Bewoor, A.K. (2021). Mathematical modelling and analysis of hybrid solar desalination system using evacuated tube collector (ETC) and compound parabolic concentrator (CPC). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 45-51. https://doi.org/10.18280/mmep.080105
106	Gupta, M.K., Sharma, P., Sinha, N., Kumar, A., Verma, V.	Frequency Based Estimation of Angular Velocity in Triple Pendulum	decision tree, Euler Lagrange, triple link pendulum, time series analysis	8, 1, 52-58	https://doi.org/10.18280/mmep.080106	Gupta, M.K., Sharma, P., Sinha, N., Kumar, A., Verma, V. (2021). Frequency based estimation of angular velocity in triple pendulum. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 52-58. https://doi.org/10.18280/mmep.080106
107	Retnani W.E.Y., Bukhori, S.	Serious Game Relationship Between Socio-Economic and Territorial Condition	sustainable development, internal factor variables, external factor variables, supply, demand	8, 1, 59-63	https://doi.org/10.18280/mmep.080107	Retnani W.E.Y., Bukhori, S. (2021). Serious game relationship between socio-economic and territorial condition. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 59-63. https://doi.org/10.18280/mmep.080107
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109	Senapati, M., Parida, S.K.	Influence of Buoyant Forces on Magnetohydrodynamics (MHD) Blood Flow with an Interaction of Thermal Radiation	thermal radiation, slip flow, permeability, thermal and mass buoyancy, Runge-Kutta method	8, 1, 71-80	https://doi.org/10.18280/mmep.080109	Senapati, M., Parida, S.K. (2021). Influence of buoyant forces on magnetohydrodynamics (MHD) blood flow with an interaction of thermal radiation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 71-80. https://doi.org/10.18280/mmep.080109
110	Griche, I., Messalti, S., Saoudi, K., Touafek, M.Y., Zitouni, F.	A New Controller for Voltage and Stability Improvement of Multi Machine Power System Tuned by Wind Turbine	power system, voltage improvement, wind turbine (WT), ANFIS controller	8, 1, 81-88	https://doi.org/10.18280/mmep.080110	Griche, I., Messalti, S., Saoudi, K., Touafek, M.Y., Zitouni, F. (2021). A new controller for voltage and stability improvement of multi machine power system tuned by wind turbine. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 81-88. https://doi.org/10.18280/mmep.080110

111	Goeritno, A.	Ordinary Differential Equations Models for Observing the Phenomena of Temperature Changes on a Single Rectangular Plate Fin	observing the phenomena of temperature changes, ordinary differential equations models, single rectangular plate fin	8, 1, 89-94	https://doi.org/10.18280/mmep.080111	Goeritno, A. (2021). Ordinary differential equations models for observing the phenomena of temperature changes on a single rectangular plate fin. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 89-94. https://doi.org/10.18280/mmep.080111
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113	Okhrimenko, V., Zbitneva, M.	Mathematical Model of Tubular Linear Induction Motor	coupled magnetization currents, electric field strength, geometric structure optimization, magnetic field induction, polar coordinate system, TLIM	8, 1, 103-109	https://doi.org/10.18280/mmep.080113	Okhrimenko, V., Zbitneva, M. (2021). Mathematical model of tubular linear induction motor. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 103-109. https://doi.org/10.18280/mmep.080113
114	Kishore, D., Rao, C.S.	Content-Based Image Retrieval System Based on Fusion of Wavelet Transform, Texture and Shape Features	CBIR, fist and accurate exponent fourier moments, local binary pattern (LBP), discrete wavelet transform (DWT)	8, 1, 110-116	https://doi.org/10.18280/mmep.080114	Kishore, D., Rao, C.S. (2021). Content-based image retrieval system based on fusion of wavelet transform, texture and shape features. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 110-116. https://doi.org/10.18280/mmep.080114
115	Lakhdar, A., Mimosuni, A., Azzouz, Z.	Parameters Affecting the Polarity Inversion of the Vertical Electric Lightning Field to the CN-Tower	electromagnetic compatibility, 2D-FDTD method, lightning to tall object, polarization reversal of the vertical electric lightning field	8, 1, 117-124	https://doi.org/10.18280/mmep.080115	Lakhdar, A., Mimosuni, A., Azzouz, Z. (2021). Parameters affecting the polarity inversion of the vertical electric lightning field to the CN-Tower. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 117-124. https://doi.org/10.18280/mmep.080115
116	Alabideen, L.Z., Al-Dakkak, O., Khorzom, K.	Hybrid Reweighted Optimization Method for Gridless Direction of Arrival Estimation in Heteroscedastic Noise Environment	Gridless DoA estimation, atomic norm, covariance fitting, co-prime array, heteroscedastic noise	8, 1, 125-133	https://doi.org/10.18280/mmep.080116	Alabideen, L.Z., Al-Dakkak, O., Khorzom, K. (2021). Hybrid reweighted optimization method for gridless direction of arrival estimation in heteroscedastic noise environment. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 125-133. https://doi.org/10.18280/mmep.080116
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118	Al-Odat, M., Rawashedh, K., Al-Hasan, M.	Performance Investigation of Flat Plate and Evacuated Tube Collectors under Jordan Climate Conditions Using TRNSYS Software	flat plate collectors, evacuated tube collectors, TRNSYS-16 software, thermal efficiency, useful energy gain	8, 1, 142-148	https://doi.org/10.18280/mmep.080118	Al-Odat, M., Rawashedh, K., Al-Hasan, M. (2021). Performance investigation of flat plate and evacuated tube collectors under Jordan climate conditions using TRNSYS software. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 142-148. https://doi.org/10.18280/mmep.080118
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120	Majid, A.	Relaxing Method in the Evaluation of MPPT of Photovoltaic Cells Based on MIT Modeling	controlled voltage, irradiance, MIT, MPP, modeling, load resistance, relaxation	8, 1, 158-164	https://doi.org/10.18280/mmep.080120	Majid, A. (2021). Relaxing method in the evaluation of MPPT of photovoltaic cells based on MIT modeling. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 8, No. 1, pp. 158-164. https://doi.org/10.18280/mmep.080120
121	Chanda, R.K., Hasan, M.S., Alam, M.M., Mondal, R.N.	Hydrothermal behavior of transient fluid flow and heat transfer through a rotating curved rectangular duct with natural and forced convection	rotating curved duct, Taylor number, secondary flow, isotherm, time-progression	7, 4, 501-514	https://doi.org/10.18280/mmep.070401	Chanda, R.K., Hasan, M.S., Alam, M.M., Mondal, R.N. (2020). Hydrothermal behavior of transient fluid flow and heat transfer through a rotating curved rectangular duct with natural and forced convection. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 501-514. https://doi.org/10.18280/mmep.070401
122	Germano, N., Lops, C., Montelpare, S., Camata, G., Ricci, R.	Determination of wind pattern inside an urban area through a mesoscale-microscale approach	urban physics, multiscale approach, macroscale analysis, microscale analysis, MM5, CFD	7, 4, 515-519	https://doi.org/10.18280/mmep.070402	Germano, N., Lops, C., Montelpare, S., Camata, G., Ricci, R. (2020). Determination of wind pattern inside an urban area through a mesoscale-microscale approach. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 515-519. https://doi.org/10.18280/mmep.070402
123	Tavarov, S.S., Sidorov, A.I., Kalegina, Y.V.	Model and algorithm of electricity consumption management for household consumers in the republic of Tajikistan	energy efficiency, power consumption, forecasting model, control algorithm	7, 4, 520-526	https://doi.org/10.18280/mmep.070403	Tavarov, S.S., Sidorov, A.I., Kalegina, Y.V. (2020). Model and algorithm of electricity consumption management for household consumers in the republic of Tajikistan. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 520-526. https://doi.org/10.18280/mmep.070403
124	Aberbour, A., Ijdarene, K., Tounzi, A.	Performance analysis of a self-excited induction generator mathematical dynamic model with magnetic saturation, cross saturation effect and iron losses	analytical model, induction generator, self-excitation, magnetic saturation, cross saturation effect, iron losses	7, 4, 527-539	https://doi.org/10.18280/mmep.070404	Aberbour, A., Ijdarene, K., Tounzi, A. (2020). Performance analysis of a self-excited induction generator mathematical dynamic model with magnetic saturation, cross saturation effect and iron losses. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 527-538. https://doi.org/10.18280/mmep.070404
125	Ikumapayi, O.M., Attah, B.I., Afolabi, S.O., Adeoti, O.M., Bodunde, O.P., Akinlabi, S.A., Akinlabi, E.T.	Numerical modelling and mechanical characterization of pure aluminium 1050 wire drawing for symmetric and axisymmetric plane deformations	aluminum, axisymmetric, coefficient of friction, drawing tension, symmetric, wire drawing	7, 4, 539-548	https://doi.org/10.18280/mmep.070405	Ikumapayi, O.M., Attah, B.I., Afolabi, S.O., Adeoti, O.M., Bodunde, O.P., Akinlabi, S.A., Akinlabi, E.T. (2020). Numerical modelling and mechanical characterization of pure aluminium 1050 wire drawing for symmetric and axisymmetric plane deformations. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 539-548. https://doi.org/10.18280/mmep.070405
126	Khudair, R.A., Alkiffai, A.N., Albukhattar, A.N.	Solving the vibrating spring equation using fuzzy Elzaki transform	fuzzy Elzaki transform, Sumudu transform, the motion of a mass, vibrating spring equation	7, 4, 549-555	https://doi.org/10.18280/mmep.070406	Khudair, R.A., Alkiffai, A.N., Albukhattar, A.N. (2020). Solving the vibrating spring equation using fuzzy Elzaki transform. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 549-555. https://doi.org/10.18280/mmep.070406
127	Islam, A.M., Emon, E.I., Ahmed, A.	A metamaterial loaded microstrip patch antenna for lower 5G U-NII spectrum	5G wireless technology, CSRR array, microstrip patch antennas, U-NII band	7, 4, 556-562	https://doi.org/10.18280/mmep.070407	Islam, A.M., Emon, E.I., Ahmed, A. (2020). A metamaterial loaded microstrip patch antenna for lower 5G U-NII spectrum. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 556-562. https://doi.org/10.18280/mmep.070407
128	Alayi, R., Khan, M.R.B., Mohammadi, M.S.G.	Feasibility study of grid-connected PV system for peak demand reduction of a residential building in Tehran, Iran	PV, HOMER, techno-economic analysis, sensitivity analysis, Iran	7, 4, 563-567	https://doi.org/10.18280/mmep.070408	Alayi, R., Khan, M.R.B., Mohammadi, M.S.G. (2020). Feasibility study of grid-connected PV system for peak demand reduction of a residential building in Tehran, Iran. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 563-567. https://doi.org/10.18280/mmep.070408
129	Ghorbani, H., Mahmoodi, Y., Saei, F.D.	Numerical study of fractional Mathieu differential equation using radial basis functions	radial basis functions, fractional Caputo derivative, Mathieu differential equation	7, 4, 568-576	https://doi.org/10.18280/mmep.070409	Ghorbani, H., Mahmoodi, Y., Saei, F.D. (2020). Numerical study of fractional Mathieu differential equation using radial basis functions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 568-576. https://doi.org/10.18280/mmep.070409
130	Noeiaghdam, S., Araghi, M.A.F.	A novel algorithm to evaluate definite integrals by the Gauss-Legendre integration rule based on the stochastic arithmetic: Application in the model of osmosis system	stochastic arithmetic, CESTAC method, CADNA library, model of osmosis system, Gauss-Legendre integration rule	7, 4, 577-586	https://doi.org/10.18280/mmep.070410	Noeiaghdam, S., Araghi, M.A.F. (2020). A novel algorithm to evaluate definite integrals by the Gauss-Legendre integration rule based on the stochastic arithmetic: Application in the model of osmosis system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 577-586. https://doi.org/10.18280/mmep.070410
131	Seclam, A.B., Kumaran, M.S., Sachidananda, K.H.	Design and analysis of suspension strut in automobile vehicles	suspension strut, structural analysis, E-Glass, carbon fiber, structural steel	7, 4, 587-596	https://doi.org/10.18280/mmep.070411	Seclam, A.B., Kumaran, M.S., Sachidananda, K.H. (2020). Design and analysis of suspension strut in automobile vehicles. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 587-596. https://doi.org/10.18280/mmep.070411
132	Veerabhadrapa, R.M.B., Ademane, V., Guntapure, V., Hindsageri, V.K.	Scaling and integral solutions to mixed convection over an exponential stretching sheet	mixed convection flow, heat transfer, similarity solution, scaling analysis, integral solution	7, 4, 597-606	https://doi.org/10.18280/mmep.070412	Veerabhadrapa, R.M.B., Ademane, V., Guntapure, V., Hindsageri, V.K. (2020). Scaling and integral solutions to mixed convection over an exponential stretching sheet. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 597-606. https://doi.org/10.18280/mmep.070412

133	Umbricht, G.F., Rubio, D., Tarzia, D.A.	Estimation technique for a contact point between two materials in a stationary heat transfer problem	elasticity analysis, heat transfer, interface problem, mathematical modeling, numerical simulation, parameter estimation	7, 4, 607-613	https://doi.org/10.18280/mmep.070413	Umbricht, G.F., Rubio, D., Tarzia, D.A. (2020). Estimation technique for a contact point between two materials in a stationary heat transfer problem. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 607-613. https://doi.org/10.18280/mmep.070413
134	Menacer, B., Khatir, N., Bouchetara, M., Larbi, A.A., Belhout, C.	The heat transfer study in the diesel engine combustion chamber using a two-zone combustion model	convective heat transfer, radiation heat transfer, Wiebe function, modeling, GT-suite, diesel engine	7, 4, 614-620	https://doi.org/10.18280/mmep.070414	Menacer, B., Khatir, N., Bouchetara, M., Larbi, A.A., Belhout, C. (2020). The heat transfer study in the diesel engine combustion chamber using a two-zone combustion model. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 614-620. https://doi.org/10.18280/mmep.070414
135	Bouddou, R., Benhamida, F., Ziane, I., Zeggai, A., Belgacem, M.	Solving bid-based dynamic economic dispatch in competitive electricity market using improved simulated annealing algorithm	competitive electricity market, bid-based dynamic economic dispatch (BDDDED), bidding strategy, improved simulated annealing algorithm (ISA)	7, 4, 621-630	https://doi.org/10.18280/mmep.070415	Bouddou, R., Benhamida, F., Ziane, I., Zeggai, A., Belgacem, M. (2020). Solving bid-based dynamic economic dispatch in competitive electricity market using improved simulated annealing algorithm. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 621-630. https://doi.org/10.18280/mmep.070415
136	Al-Saif, A.S.J., Al-Griffi, T.A.J.	A new technique to solve two-dimensional viscous fluid flow among slowly expand or contract walls	Yang transform, homotopy perturbation method, 2D viscous flow, convergence analysis	7, 4, 631-641	https://doi.org/10.18280/mmep.070416	Al-Saif, A.S.J., Al-Griffi, T.A.J. (2020). A new technique to solve two-dimensional viscous fluid flow among slowly expand or contract walls. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 631-641. https://doi.org/10.18280/mmep.070416
137	Sanayei, H.R.Z., Nasiri, F.	Simple semi-analytical solutions using the perturbation method for gradually varied flow profile in triangular channels	gradually varied flow, nonlinear ordinary differential equation, perturbation method, semi-analytical solution, triangular channel, water surface profile	7, 4, 642-648	https://doi.org/10.18280/mmep.070417	Sanayei, H.R.Z., Nasiri, F. (2020). Simple semi-analytical solutions using the perturbation method for gradually varied flow profile in triangular channels. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 642-648. https://doi.org/10.18280/mmep.070417
138	Ullah, N.	Fractional order sliding mode control design for a buck converter feeding resistive power loads	DC-DC converters, DC nano grid, fractional order sliding mode controllers, fractional calculus, variable resistive loading	7, 4, 649-658	https://doi.org/10.18280/mmep.070418	Ullah, N. (2020). Fractional order sliding mode control design for a buck converter feeding resistive power loads. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 649-658. https://doi.org/10.18280/mmep.070418
139	Madan, H.T., Basarkod, P.I.	Throughput and outage probability analysis for cognitive radio-non-orthogonal multiple access in uplink and downlink scenarios	cognitive radio (CR), non orthogonal multiple access (NOMA), underlay sharing, overlay sharing, primary users (PU), secondary users (SU)	7, 4, 659-666	https://doi.org/10.18280/mmep.070419	Madan, H.T., Basarkod, P.I. (2020). Throughput and outage probability analysis for cognitive radio-non-orthogonal multiple access in uplink and downlink scenarios. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 659-666. https://doi.org/10.18280/mmep.070419
140	Rawash, Y.Z.	In depth analysis of stretch function resulting from solving the generalize fractional-order Bloch equations using fractional calculus	MRI, complex function, relaxation, Bloch equations, DWI, Anomalous diffusion, tensor, magnetization	7, 4, 669-676	https://doi.org/10.18280/mmep.070420	Rawash, Y.Z. (2020). In depth analysis of stretch function resulting from solving the generalize fractional-order Bloch equations using fractional calculus. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 4, pp. 667-676. https://doi.org/10.18280/mmep.070420
141	Nicoletti, F., Cucumo, M.A., Ferraro, V., Kaliakatsos, D., Settino, J.	Performance analysis of a double-sided PV plant oriented with backtracking system	performance analysis, solar thermal generator, dish collector, flat mirrors	7, 3, 325-334	https://doi.org/10.18280/mmep.070301	Nicoletti, F., Cucumo, M.A., Ferraro, V., Kaliakatsos, D., Settino, J. (2020). Performance analysis of a double-sided PV plant oriented with backtracking system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 325-334. https://doi.org/10.18280/mmep.070301
142	Maouedj, R., Youcef, A.	Impact of twisted fins on the overall performances of a rectangular-channel air-heat exchanger	mathematical modelling, computational fluid dynamics, turbulent flows, forced convection, solar channel air-heat exchanger, twisted fins	7, 3, 335-344	https://doi.org/10.18280/mmep.070302	Maouedj, R., Youcef, A. (2020). Impact of twisted fins on the overall performances of a rectangular-channel air-heat exchanger. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 335-344. https://doi.org/10.18280/mmep.070302
143	Mackolli, J., Mahanthes, B.	Logistic growth and SIR modelling of Coronavirus disease (COVID-19) outbreak in India: Models based on real-time data	COVID-19, epidemic, logistic growth model, mathematical modelling, novel Corona virus, SIR model	7, 3, 345-350	https://doi.org/10.18280/mmep.070303	Mackolli, J., Mahanthes, B. (2020). Logistic growth and SIR modelling of Coronavirus disease (COVID-19) outbreak in India: Models based on real-time data. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 345-350. https://doi.org/10.18280/mmep.070303
144	Gangadhar, K., Bhargavi, D.N., Munagala, V.S.R.	Steady boundary layer flow of Casson fluid over a nonlinear stretched sheet in presence of viscous dissipation using the spectral relaxation method	SRM, exact solutions, Casson fluid, nonlinear stretching sheet, viscous dissipation	7, 3, 351-358	https://doi.org/10.18280/mmep.070304	Gangadhar, K., Bhargavi, D.N., Munagala, V.S.R. (2020). Steady boundary layer flow of Casson fluid over a nonlinear stretched sheet in presence of viscous dissipation using the spectral relaxation method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 351-358. https://doi.org/10.18280/mmep.070304
145	Noeiaghdam, S., Sidorov, D.	Caputo-Fabrizio fractional derivative to solve the fractional model of energy supply-demand system	fractional differential equations, energy supply-demand system, caputo-fabrizio derivative	7, 3, 359-367	https://doi.org/10.18280/mmep.070305	Noeiaghdam, S., Sidorov, D. (2020). Caputo-Fabrizio fractional derivative to solve the fractional model of energy supply-demand system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 359-367. https://doi.org/10.18280/mmep.070305
146	Shanta, S.S., Biswas, M.H.A.	The impact of media awareness in controlling the spread of infectious diseases in terms of sir model	infectious disease, mathematical model, basic reproduction number, media awareness	7, 3, 368-376	https://doi.org/10.18280/mmep.070306	Shanta, S.S., Biswas, M.H.A. (2020). The impact of media awareness in controlling the spread of infectious diseases in terms of sir model. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 368-376. https://doi.org/10.18280/mmep.070306
147	Oloniju, S.D., Goqo, S.P., Sibanda, P.	A Chebyshev based spectral method for solving boundary layer flow of a fractional-order Oldroyd-B fluid	MHD fluid, non-isothermal flow, fractional calculus, Chebyshev – Gauss – Lobatto quadrature, fractional Oldroyd-B fluid	7, 3, 377-386	https://doi.org/10.18280/mmep.070307	Oloniju, S.D., Goqo, S.P., Sibanda, P. (2020). A Chebyshev based spectral method for solving boundary layer flow of a fractional-order Oldroyd-B fluid. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 377-386. https://doi.org/10.18280/mmep.070307
148	Parida, B.C., Swain, B.K., Senapati, N., Sahoo, S.	Viscous dissipation effect on MHD free convective flow in the presence of thermal radiation and chemical reaction	chemical reaction, MHD, nusselt number, porous medium, sherwood number, skin friction, thermal radiation, viscous dissipation	7, 3, 387-394	https://doi.org/10.18280/mmep.070308	Parida, B.C., Swain, B.K., Senapati, N., Sahoo, S. (2020). Viscous dissipation effect on MHD free convective flow in the presence of thermal radiation and chemical reaction. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 387-394. https://doi.org/10.18280/mmep.070308
149	Al-awad, N.A.	Optimal controller design for reduced-order model of rotational mechanical system	rotational mechanical system, model reduction, PID controller, LQR controller, GA-PID	7, 3, 395-402	https://doi.org/10.18280/mmep.070309	Al-awad, N.A. (2020). Optimal controller design for reduced-order model of rotational mechanical system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 395-402. https://doi.org/10.18280/mmep.070309
150	Wu, L.M., Zheng, Y.F., Gao, X., Wang, Z.Q.	Progressive collapse resistance of formwork support system with couplers	progressive collapse (PC), formwork support system with couplers, horizontal tube, upright tube, node stiffness	7, 3, 403-410	https://doi.org/10.18280/mmep.070310	Wu, L.M., Zheng, Y.F., Gao, X., Wang, Z.Q. (2020). Progressive collapse resistance of formwork support system with couplers. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 403-410. https://doi.org/10.18280/mmep.070310
151	Majid, A.	Reliability and failure rate evaluation of lifetime extension analysis of ad hoc and wireless sensor networks	Ad hoc, failure rate, lifetime extension, probabilistic model, random lifetime variable, reliability, sensors-targets coverage, wireless sensor networks	7, 3, 411-420	https://doi.org/10.18280/mmep.070311	Majid, A. (2020). Reliability and failure rate evaluation of lifetime extension analysis of ad hoc and wireless sensor networks. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 411-420. https://doi.org/10.18280/mmep.070311
152	Chaabane, R., Jenni, A.	On the numerical treatment of magneto-hydro dynamics free convection with mixed boundary conditions	mixed BC, convection, heat transfer, LBM linearly, MHD, open cavity, convection, linearly, heat transfer	7, 3, 421-426	https://doi.org/10.18280/mmep.070312	Chaabane, R., Jenni, A. (2020). On the numerical treatment of magneto-hydro dynamics free convection with mixed boundary conditions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 421-426. https://doi.org/10.18280/mmep.070312
153	Giri, J.M., Nain, P.K.S.	Performance optimization of thermoelectric cooler using genetic algorithm	thermoelectric cooler, optimization, genetic algorithm, finite-element method, ANSYS workbench, cooling capacity, COP	7, 3, 427-435	https://doi.org/10.18280/mmep.070313	Giri, J.M., Nain, P.K.S. (2020). Performance optimization of thermoelectric cooler using genetic algorithm. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 427-435. https://doi.org/10.18280/mmep.070313
154	Nguyen, T.A.	Establishing the dynamics model of the vehicle using the 4-wheels steering systems	dynamic vehicle, 4-wheels steering, understeering, oversteering	7, 3, 436-440	https://doi.org/10.18280/mmep.070314	Nguyen, T.A. (2020). Establishing the dynamics model of the vehicle using the 4-wheels steering systems. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 436-440. https://doi.org/10.18280/mmep.070314

155	Ghauri, S.A., Sarfraz, M., Muhammad, N.B., Munir, S.	Genetic algorithm assisted support vector machine for M-QAM classification	automatic modulation classification (AMC), higher order cumulants (HOC), genetic algorithm (GA), M-ARY quadrature amplitude modulated (M-QAM) signal, support vector machine (SVM)	7, 3, 441-449	https://doi.org/10.18280/mmep.070315	Ghauri, S.A., Sarfraz, M., Muhammad, N.B., Munir, S. (2020). Genetic algorithm assisted support vector machine for M-QAM classification. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 441-449. https://doi.org/10.18280/mmep.070315
156	Janamala, V., Pandiraju, T.K.S.	Static voltage stability of reconfigurable radial distribution system considering voltage dependent load models	voltage stability analysis, radial distribution system, network reconfiguration, voltage-dependent load modeling	7, 3, 450-458	https://doi.org/10.18280/mmep.070316	Janamala, V., Pandiraju, T.K.S. (2020). Static voltage stability of reconfigurable radial distribution system considering voltage dependent load models. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 450-458. https://doi.org/10.18280/mmep.070316
157	Farida, A., Silem, D., Zeroual, A.	Numerical simulation of air flow and temperature distribution in volumetric solar receiver consisting of a porous medium	ceramic foams, local temperature equilibrium, porous medium, tetrahedra/cubedra structure turbulence, volumetric solar receiver	7, 3, 459-464	https://doi.org/10.18280/mmep.070317	Farida, A., Silem, D., Zeroual, A. (2020). Numerical simulation of air flow and temperature distribution in volumetric solar receiver consisting of a porous medium. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 459-464. https://doi.org/10.18280/mmep.070317
158	Elsherbiny, A.M., Bayoumy, A.M., Elshabka, A.M., Abdelrahman, M.M.	Unrestricted general solution of 6DoF inverse dynamics problem of a 3D guided glider	inverse simulation, direct simulation, trajectory generation, guided glider	7, 3, 465-475	https://doi.org/10.18280/mmep.070318	Elsherbiny, A.M., Bayoumy, A.M., Elshabka, A.M., Abdelrahman, M.M. (2020). Unrestricted general solution of 6DoF inverse dynamics problem of a 3D guided glider. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 465-475. https://doi.org/10.18280/mmep.070318
159	Senapati, M., Parida, S.K., Swain, B.K., Dash, G.C.	MHD free convective flow in a composite medium between co-axial vertical cylinders with temperature dependent heat flux on inner cylinder	Brinkman extended Darcy model, free convection, heat flux, stress jump, magnetic field, composite medium	7, 3, 476-482	https://doi.org/10.18280/mmep.070319	Senapati, M., Parida, S.K., Swain, B.K., Dash, G.C. (2020). MHD free convective flow in a composite medium between co-axial vertical cylinders with temperature dependent heat flux on inner cylinder. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 476-482. https://doi.org/10.18280/mmep.070319
160	Nagaraju, M., Durga Sukumar, G., Marutheswar, G.V.	An indirect matrix converter fed linear induction motor drive by considering time-varying parameters	single-sided linear induction motor (SLIM), end-effect, saturation, indirect matrix converter (IMC), indirect vector control technique, space vector modulation (SVM) and total harmonics distortion (THD)	7, 3, 483-492	https://doi.org/10.18280/mmep.070320	Nagaraju, M., Durga Sukumar, G., Marutheswar, G.V. (2020). An indirect matrix converter fed linear induction motor drive by considering time-varying parameters. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 483-492. https://doi.org/10.18280/mmep.070320
161	Patel, D., Chowdhury, A.	Design and analysis of Sen Transformer using FEM and no load loss calculation	Sen Transformer, no load loss, FEM, flux density, power flow controller, magnetic equivalent circuit	7, 3, 493-500	https://doi.org/10.18280/mmep.070321	Patel, D., Chowdhury, A. (2020). Design and analysis of Sen Transformer using FEM and no load loss calculation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 3, pp. 493-500. https://doi.org/10.18280/mmep.070321
162	Doewes, R.I.	Biomechanical analysis of backstroke start movement in Indonesian swimming athletes in the 14-year age group	biomechanics, start, backstroke, swimming	7, 2, 173-177	https://doi.org/10.18280/mmep.070201	Doewes, R.I. (2020). Biomechanical analysis of backstroke start movement in Indonesian swimming athletes in the 14-year age group. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 173-177. https://doi.org/10.18280/mmep.070201
163	Chamkha, A.J., Menni, Y.	Hydrogen flow over a detached V-shaped rib in a rectangular channel	V-shaped rib, rectangular channel, turbulent flow, forced convection, hydrogen fluid	7, 2, 178-186	https://doi.org/10.18280/mmep.070202	Chamkha, A.J., Menni, Y. (2020). Hydrogen flow over a detached V-shaped rib in a rectangular channel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 178-186. https://doi.org/10.18280/mmep.070202
164	Suneetha, K., Ibrahim, S.M., Reddy, G.V.R., Kumar, P.V.	Variable temperature and concentration impacts on radiative chemically magnetohydrodynamic viscoelastic fluid flow through porous moving plate	Visco-elastic, MHD, porous media, heat sink, radiation, chemical reaction	7, 2, 187-195	https://doi.org/10.18280/mmep.070203	Suneetha, K., Ibrahim, S.M., Reddy, G.V.R., Kumar, P.V. (2020). Variable temperature and concentration impacts on radiative chemically magnetohydrodynamic viscoelastic fluid flow through porous moving plate. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 187-195. https://doi.org/10.18280/mmep.070203
165	Abu-Bakr, A.F., Isakova, L.Y., Zubarev, A.Y.	Heat exchange within the surrounding biological tissue during magnetic hyperthermia	bioheat transfer equation, mathematical modeling, biological tissue, hyperthermia	7, 2, 196-200	https://doi.org/10.18280/mmep.070204	Abu-Bakr, A.F., Isakova, L.Y., Zubarev, A.Y. (2020). Heat exchange within the surrounding biological tissue during magnetic hyperthermia. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 196-200. https://doi.org/10.18280/mmep.070204
166	Sunarto, A., Sulaiman, J.	Performance numerical method Half-Sweep Preconditioned Gauss-Seidel for solving fractional diffusion equation	HSPGS, space-fractional, Caputo's, implicit finite difference	7, 2, 201-204	https://doi.org/10.18280/mmep.070205	Sunarto, A., Sulaiman, J. (2020). Performance numerical method Half-Sweep Preconditioned Gauss-Seidel for solving fractional diffusion equation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 201-204. https://doi.org/10.18280/mmep.070205
167	Taloub, D., Bouras, A., Driss, Z.	Numerical resolution of the heat equation in the square form Four-Part-II-	iterative methods, numerical methods, recurrence formula, thermal conduction	7, 2, 205-211	https://doi.org/10.18280/mmep.070206	Taloub, D., Bouras, A., Driss, Z. (2020). Numerical resolution of the heat equation in the square form Four-Part-II-. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 205-211. https://doi.org/10.18280/mmep.070206
168	Bose, A., Sathujoda, P.	Effect of thermal gradient on vibration characteristics of a functionally graded shaft system	functionally graded material, non-linear temperature distribution, exponential temperature distribution, finite element method, whirl frequencies	7, 2, 212-222	https://doi.org/10.18280/mmep.070207	Bose, A., Sathujoda, P. (2020). Effect of thermal gradient on vibration characteristics of a functionally graded shaft system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 212-222. https://doi.org/10.18280/mmep.070207
169	Benbouhenni, H., Boujdema, Z., Belaidi, A.	Power control of DFIG in WECS using DPC and NDPC-NPWM methods	DFIG, DPC, WECS, NDPC, NPWM, NDPC-NPWM	7, 2, 223-236	https://doi.org/10.18280/mmep.070208	Benbouhenni, H., Boujdema, Z., Belaidi, A. (2020). Power control of DFIG in WECS using DPC and NDPC-NPWM methods. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 223-236. https://doi.org/10.18280/mmep.070208
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173	Elmeiche, A., Bouamama, M., Elhanani, A.	Forced vibration analysis of functionally graded beams carrying moving harmonic loads under random boundary conditions	forced vibrations, FGM beams, moving harmonic loads, LSBT, fundamental frequencies, DAF, random boundary conditions	7, 2, 258-264	https://doi.org/10.18280/mmep.070212	Elmeiche, A., Bouamama, M., Elhanani, A. (2020). Forced vibration analysis of functionally graded beams carrying moving harmonic loads under random boundary conditions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 258-264. https://doi.org/10.18280/mmep.070212
174	Mukkamala, U., Gunji, S.R.	Comparison of regression model with multi-layer perceptron model while optimising cutting force using genetic algorithm	MQL, nano cutting fluids, modelling, optimization, genetic algorithm, artificial neural networks	7, 2, 265-272	https://doi.org/10.18280/mmep.070213	Mukkamala, U., Gunji, S.R. (2020). Comparison of regression model with multi-layer perceptron model while optimising cutting force using genetic algorithm. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 265-272. https://doi.org/10.18280/mmep.070213
175	Shanta, S.S., Islam, M.A.I., Mondol, K., Ahmed, S.F.	Numerical study on unsteady flow and mass transfer past a vertical porous plate with variable viscosity	explicit finite difference method, mass transfer, unsteady flow, variable viscosity, vertical porous plate	7, 2, 273-282	https://doi.org/10.18280/mmep.070214	Shanta, S.S., Islam, M.A.I., Mondol, K., Ahmed, S.F. (2020). Numerical study on unsteady flow and mass transfer past a vertical porous plate with variable viscosity. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 273-282. https://doi.org/10.18280/mmep.070214
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178	Kumar, K., Goswami, M., Arya, R.	Statistical analysis of optimization-based clustering scheme for multi-UAV networks	UAV, FANET, clustering, WCA, CSA, firefly, cuckoo search, network lifetime, energy consumption	7, 2, 299-308	https://doi.org/10.18280/mmep.070217	Kumar, K., Goswami, M., Arya, R. (2020). Statistical analysis of optimization-based clustering scheme for multi-UAV networks. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 299-308. https://doi.org/10.18280/mmep.070217
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180	Yasodhara, G., Sreenadh, S., Sumalatha, B., Srinivas, A.N.S.	Axisymmetric peristaltic flow of a non-Newtonian fluid in a channel with elastic walls	Casson fluid, peristaltic transport, elasticity, yield stress	7, 2, 315-323	https://doi.org/10.18280/mmep.070219	Yasodhara, G., Sreenadh, S., Sumalatha, B., Srinivas, A.N.S. (2020). Axisymmetric peristaltic flow of a non-Newtonian fluid in a channel with elastic walls. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 2, pp. 315-323. https://doi.org/10.18280/mmep.070219
181	Yusuf, T.A., Mabood, F.	Slip effects and entropy generation on inclined MHD flow of Williamson fluid through a permeable wall with chemical reaction via DTM	activation energy, Chemical reaction, MHD Williamson fluid, Bjan number, DTM	7, 1, 1-9	https://doi.org/10.18280/mmep.070101	Yusuf, T.A., Mabood, F. (2020). Slip effects and entropy generation on inclined MHD flow of Williamson fluid through a permeable wall with chemical reaction via DTM. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 1, pp. 1-9. https://doi.org/10.18280/mmep.070101
182	Menni, Y., Chamkha, A.J., Lorenzini, G., Ameur, H., Salmi, M., Fridja, D.	Numerical simulation of dynamic pressure and kinetic energy fields of turbulent oil flow in staggered baffled pipes	dynamic pressure, turbulent kinetic energy, turbulent viscosity, oil flow, baffled pipe	7, 1, 10-16	https://doi.org/10.18280/mmep.070102	Menni, Y., Chamkha, A.J., Lorenzini, G., Ameur, H., Salmi, M., Fridja, D. (2020). Numerical simulation of dynamic pressure and kinetic energy fields of turbulent oil flow in staggered baffled pipes. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 1, pp. 10-16. https://doi.org/10.18280/mmep.070102
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184	Salehizadeh, M.R., Nouri, H.	Circuit modelling by difference equation: Pedagogical advantages and perspectives	circuit, modelling, difference equation, dynamic response, non-linear circuits	7, 1, 26-30	https://doi.org/10.18280/mmep.070104	Salehizadeh, M.R., Nouri, H. (2020). Circuit modelling by difference equation: Pedagogical advantages and perspectives. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 1, pp. 26-30. https://doi.org/10.18280/mmep.070104
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191	Baci, A.B., Salmi, M., Hima, A., Menni, Y.	Performance of angstrom model under Algerian climate	solar irradiation measurements, solar irradiation modelling, solar energy, Algerian climate, angstrom model	7, 1, 87-93	https://doi.org/10.18280/mmep.070111	Baci, A.B., Salmi, M., Hima, A., Menni, Y. (2020). Performance of angstrom model under Algerian climate. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 1, pp. 87-93. https://doi.org/10.18280/mmep.070111
192	Dharmappa, D., Mandi, M.V., Siddaiah, R.	Generation of binary sequences of length 10230 bits having better odd and even correlation with large linear complexity for use in global navigation satellites systems (GNSS) applications	global positioning system (GPS), global navigation satellites systems (GNSS), chaotic logistic map, auto correlation, cross correlation, linear complexity (LC)	7, 1, 94-102	https://doi.org/10.18280/mmep.070112	Dharmappa, D., Mandi, M.V., Siddaiah, R. (2020). Generation of binary sequences of length 10230 bits having better odd and even correlation with large linear complexity for use in global navigation satellites systems (GNSS) applications. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 1, pp. 94-102. https://doi.org/10.18280/mmep.070112
193	Abdallah, N., Kaddour, R., Mimoun, Y., Mostefa, B.	Investigate the effect of damping parameters of the hydrodynamic bearings using the optimization method of design of experiments	hydrodynamic bearing, design of experiments, stability, damping coefficients, Plakett-Barman design, rotating machines, dynamic coefficients	7, 1, 103-112	https://doi.org/10.18280/mmep.070113	Abdallah, N., Kaddour, R., Mimoun, Y., Mostefa, B. (2020). Investigate the effect of damping parameters of the hydrodynamic bearings using the optimization method of design of experiments. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 7, No. 1, pp. 103-112. https://doi.org/10.18280/mmep.070113
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209	Qadiri, U., Wani, M.M.	Performance combustion and emission characteristics of 3-Cylinder SI engine fuelled conventional gasoline, ethanol blends, and micro-emulsion used as an alternative fuel	performance, bio fuel, emissions, AVL boost, micro-emulsions	6, 4, 541-549	https://doi.org/10.18280/mmep.060409	Qadiri, U., Wani, M.M. (2019). Performance combustion and emission characteristics of 3-Cylinder SI engine fuelled conventional gasoline, ethanol blends, and micro-emulsion used as an alternative fuel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 541-549. https://doi.org/10.18280/mmep.060409
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211	Yadav, R.R., Roy, J.	Solute transport phenomena with input through a plane surface in porous media.	adsorption, dispersion, porous medium, groundwater velocity, laplace transformation technique	6, 4, 557-565	https://doi.org/10.18280/mmep.060411	Yadav, R.R., Roy, J. (2019). Solute transport phenomena with input through a plane surface in porous media. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 557-565. https://doi.org/10.18280/mmep.060411
212	Mihoubi, H., Bouderah, B., Tayebi, T.	Improvement of free convection heat transfer in a concentric cylindrical annulus heat exchanger using nanofluid	nanofluids, natural convection, horizontal concentric cylinders, finite volume method	6, 4, 566-574	https://doi.org/10.18280/mmep.060412	Mihoubi, H., Bouderah, B., Tayebi, T. (2019). Improvement of free convection heat transfer in a concentric cylindrical annulus heat exchanger using nanofluid. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 566-574. https://doi.org/10.18280/mmep.060412
213	Bouhezza, A., Kholai, O., Teggar, M.	Numerical investigation of nanofluids mixed convection in a vertical channel	mixed convection, nanofluid, vertical channel, volume fraction	6, 4, 575-580	https://doi.org/10.18280/mmep.060413	Bouhezza, A., Kholai, O., Teggar, M. (2019). Numerical investigation of nanofluids mixed convection in a vertical channel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 575-580. https://doi.org/10.18280/mmep.060413
214	Sivanandam, S., Marimuthu, B., Arumugam, M., Bhose, G.	Stratification, slip and cross diffusion impacts on time depending convective stream with chemical reaction	unsteady flow, MHD, chemical reaction, Soret/Dufour effect, stratification	6, 4, 581-588	https://doi.org/10.18280/mmep.060414	Sivanandam, S., Marimuthu, B., Arumugam, M., Bhose, G. (2019). Stratification, slip and cross diffusion impacts on time depending convective stream with chemical reaction. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 581-588. https://doi.org/10.18280/mmep.060414
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216	Abdulkadhim, A.	On simulation of the natural convection heat transfer between circular cylinder and an elliptical enclosure filled with nanofluid [part I: The effect of MHD and internal heat generation/absorption]	MHD, heat generation/absorption, nanofluid, elliptical enclosure, natural convection	6, 4, 599-610	https://doi.org/10.18280/mmep.060416	Abdulkadhim, A. (2019). On simulation of the natural convection heat transfer between circular cylinder and an elliptical enclosure filled with nanofluid [part I: The effect of MHD and internal heat generation/absorption]. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 599-610. https://doi.org/10.18280/mmep.060416
217	Seeni, A.	Aerodynamic performance characterization and static structural analysis of slotted propeller: Part A effect of position	slotted propeller, computational fluid dynamics, static structural, low reynolds number, APC slow flyer, ANSYS fluent, ANSYS mechanical	6, 4, 611-624	https://doi.org/10.18280/mmep.060417	Seeni, A. (2019). Aerodynamic performance characterization and static structural analysis of slotted propeller: Part A effect of position. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 611-624. https://doi.org/10.18280/mmep.060417
218	Mondal, R.K., Reza-E-Rabbi, S., Gharami, P.P., Ahmed, S.F., Arifuzzaman, S.M.	A simulation of Casson fluid flow with variable viscosity and thermal conductivity effects	casson fluid, chemical reaction, porous medium, explicit finite difference method, MHD	6, 4, 625-633	https://doi.org/10.18280/mmep.060418	Mondal, R.K., Reza-E-Rabbi, S., Gharami, P.P., Ahmed, S.F., Arifuzzaman, S.M. (2019). A simulation of Casson fluid flow with variable viscosity and thermal conductivity effects. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 625-633. https://doi.org/10.18280/mmep.060418
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226	Alhumoud, J.M., Almashan, N.	Muskingum method with variable parameter estimation	muskingum models, linear, nonlinear, trial and error method, least square method, direct optimization method	6, 3, 355-362	https://doi.org/10.18280/mmep.060306	Alhumoud, J.M., Almashan, N. (2019). Muskingum method with variable parameter estimation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 355-362. https://doi.org/10.18280/mmep.060306
227	Xiong, C.P., Sun, H., Pan, D., Li, Y.	A personalized collaborative filtering recommendation algorithm based on linear regression	tag, linear regression, collaborative filtering, Recommender System (RS)	6, 3, 363-368	https://doi.org/10.18280/mmep.060307	Xiong, C.P., Sun, H., Pan, D., Li, Y. (2019). A personalized collaborative filtering recommendation algorithm based on linear regression. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 363-368. https://doi.org/10.18280/mmep.060307
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230	An, Q.Q.	A novel recommendation algorithm considering average similarity and user-based collaborative filtering	Average Similarity (AS), User-Based Collaborative Filtering (USF), recommendation algorithm, scoring matrix	6, 3, 390-396	https://doi.org/10.18280/mmep.060310	An, Q.Q. (2019). A novel recommendation algorithm considering average similarity and user-based collaborative filtering. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 390-396. https://doi.org/10.18280/mmep.060310
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232	Sun, S.S., Lei, G., Sun, Z.P.	Dynamic and static load tests on a large-span rigid-frame bridge	Dynamic and Static Load (DSL) tests, bearing capacity, working performance, rigid-frame bridge, stress state, dynamic properties	6, 3, 409-414	https://doi.org/10.18280/mmep.060312	Sun, S.S., Lei, G., Sun, Z.P. (2019). Dynamic and static load tests on a large-span rigid-frame bridge. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 409-414. https://doi.org/10.18280/mmep.060312
233	Menni, Y., Chamkha, A.J., Lorenzini, G., Kaid, N., Ameur, H., Bensafi, M.	Advances of nanofluids in solar collectors - A review of numerical studies	nanofluid, base fluid, heat transfer, fluid flow, solar collector, numerical simulation	6, 3, 415-427	https://doi.org/10.18280/mmep.060313	Menni, Y., Chamkha, A.J., Lorenzini, G., Kaid, N., Ameur, H., Bensafi, M. (2019). Advances of nanofluids in solar collectors - A review of numerical studies. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 415-427. https://doi.org/10.18280/mmep.060313
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236	Qin, Y.P., Zheng, C.F.	Analysis of aspect ratio effects of left heated 2D cavity using energy streamlines and field synergy principle	Rayleigh number, aspect ratio, energy streamlines, field synergy, Nusselt number	6, 3, 437-448	https://doi.org/10.18280/mmep.060316	Qin, Y.P., Zheng, C.F. (2019). Analysis of aspect ratio effects of left heated 2D cavity using energy streamlines and field synergy principle. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 437-448. https://doi.org/10.18280/mmep.060316
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245	Radhi D., Mohsen A.M.H., Abdulkadhim A.	Experimental investigation of two-phase fluid flow over a rectangular obstructions located inside enlarged rectangular channel	two-phase flow, rectangular obstructions, flow rate	6, 2, 183-187	https://doi.org/10.18280/mmep.060205	Radhi, D., Mohsen, A.M.H., Abdulkadhim, A. (2019). Experimental investigation of two-phase fluid flow over a rectangular obstructions located inside enlarged rectangular channel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 183-187. https://doi.org/10.18280/mmep.060205
246	Ayano, M.S., Otegbeye, O., Mota, S.S.	MHD mixed convection chemically reactive cason fluid flow over an inclined stretching/shrinking sheet: paired quasilinearization approach (PQLM)	heat transfer, mass transfer, hydromagnetic flow, secondary flow, numerical solution, hall effect, chemical reaction, solet and dufour	6, 2, 188-196	https://doi.org/10.18280/mmep.060206	Ayano, M.S., Otegbeye, O., Mota, S.S. (2019). MHD mixed convection chemically reactive cason fluid flow over an inclined stretching/shrinking sheet: Paired quasilinearization approach (PQLM). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 188-196. https://doi.org/10.18280/mmep.060206
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249	Driss A., Maalej S., Chouat I., Zaghdoudi M.C.	Experimental investigation on the thermal performance of a heat pipe-based cooling system	capillary pumping, electronics cooling, heat pipes, grooves	6, 2, 217-228	https://doi.org/10.18280/mmep.060209	Driss, A., Maalej, S., Chouat, I., Zaghdoudi, M.C. (2019). Experimental investigation on the thermal performance of a heat pipe-based cooling system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 217-228. https://doi.org/10.18280/mmep.060209
250	Cui L.M., Liao Y.L.	A predictor-preview controller for discrete-time systems with input delay and external interference	discrete-time system, input delay, predictor-preview control, external interference	6, 2, 229-234	https://doi.org/10.18280/mmep.060210	Cui, L.M., Liao, Y.L. (2019). A predictor-preview controller for discrete-time systems with input delay and external interference. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 229-234. https://doi.org/10.18280/mmep.060210
251	Radid A., Rhoif K.	Partitioning differential transformation for solving integro-differential equations problem and application to electrical circuits	Multi-Stages Differential Transformation Method (MsDTM), Taylor'S Series, Power Series, integro-differential equations, electrical circuit modelling	6, 2, 235-240	https://doi.org/10.18280/mmep.060211	Radid, A., Rhoif, K. (2019). Partitioning differential transformation for solving integro-differential equations problem and application to electrical circuits. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 235-240. https://doi.org/10.18280/mmep.060211
252	Choudhury K., Ahmed N.	Unsteady MHD mass transfer flow past a temporarily accelerated semi-infinite vertical plate in presence of thermal diffusion with ramped wall temperature	heat transfer, ramped temperature, thermal diffusion, thermal radiation	6, 2, 241-248	https://doi.org/10.18280/mmep.060212	Choudhury, K., Ahmed, N. (2019). Unsteady MHD mass transfer flow past a temporarily accelerated semi-infinite vertical plate in presence of thermal diffusion with ramped wall temperature. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 241-248. https://doi.org/10.18280/mmep.060212
253	Ali A.A., Hegaze M.M., Elrodesly A.S.	In-flight correction of the satellite orientation parameter during target mode	orientation parameters, pointing accuracy, satellite attitude and orbit control, time-optimal nonlinear feedback control	6, 2, 249-262	https://doi.org/10.18280/mmep.060213	Ali, A.A., Hegaze, M.M., Elrodesly, A.S. (2019). In-flight correction of the satellite orientation parameter during target mode. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 249-262. https://doi.org/10.18280/mmep.060213
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259	Srinivasacharya D., Jagadeeswar P.	Flow over an exponentially stretching sheet with double dispersion and convective thermal condition	double dispersion, porous medium, convective thermal condition, heat and mass transfer	6, 2, 300-308	https://doi.org/10.18280/mmep.060219	Srinivasacharya, D., Jagadeeswar, P. (2019). Flow over an exponentially stretching sheet with double dispersion and convective thermal condition. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 300-306. https://doi.org/10.18280/mmep.060219
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