No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 501-514. https://doi.org/10.18280/mmep.070401
2	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 515-519. https://doi.org/10.18280/mmep.070402
3	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 520-526. https://doi.org/10.18280/mmep.070403
4	Aberbour, A., Idjdarene, 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., Idjdarene, K., Tounzi, A. (2020). Performance analysis of a self-excited induction generator mathematical dynamic model with magnetic saturation, cross saturation effect and iron losses. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 527-538. https://doi.org/10.18280/mmep.070404
5	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	aluminium, 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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 539-548. https://doi.org/10.18280/mmep.070405
6	Khudair, R.A., Alkiffai, A.N., Albukhuttar, 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., Albukhuttar, A.N. (2020). Solving the vibrating spring equation using fuzzy Elzaki transform. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 549-555. https://doi.org/10.18280/mmep.070406
7	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 556-562. https://doi.org/10.18280/mmep.070407
8	Alayi, R., Khan, M.R.B., Mohmammadi, 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., Mohmammadi, M.S.G. (2020). Feasibility study of grid-connected PV system for peak demand reduction of a residential building in Tehran, Iran. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 563-567. https://doi.org/10.18280/mmep.070408
9	Ghorbani, H., Mahmoudi, 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., Mahmoudi, Y., Saei, F.D. (2020). Numerical study of fractional Mathieu differential equation using radial basis functions. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 568-576. https://doi.org/10.18280/mmep.070409
10	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 577-586. https://doi.org/10.18280/mmep.070410
11	Seelam, 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	Seelam, A.B., Kumaran, M.S., Sachidananda, K.H. (2020). Design and analysis of suspension strut in automobile vehicles. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 587-596. https://doi.org/10.18280/mmep.070411
12	Veerabhadrappa, R.M.B., Ademane, V., Gumtapure, V., Hindasageri, 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	Veerabhadrappa, R.M.B., Ademane, V., Gumtapure, V., Hindasageri, V.K. (2020). Scaling and integral solutions to mixed convection over an exponential stretching sheet. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 597-606. https://doi.org/10.18280/mmep.070412
13	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 607-613. https://doi.org/10.18280/mmep.070413
14	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 614-620. https://doi.org/10.18280/mmep.070414
15	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 (BBDED), 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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 621-630. https://doi.org/10.18280/mmep.070415
16	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 631-641. https://doi.org/10.18280/mmep.070416
17	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 642-648. https://doi.org/10.18280/mmep.070417
18	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 649-658. https://doi.org/10.18280/mmep.070418
19	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 659-666. https://doi.org/10.18280/mmep.070419
20	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 4, pp. 667-676. https://doi.org/10.18280/mmep.070420
21	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 325-334. https://doi.org/10.18280/mmep.070301
22	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 335-344. https://doi.org/10.18280/mmep.070302

23	Mackolil, J., Mahanthesh, 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	Mackolil, J., Mahanthesh, B. (2020). Logistic growth and SIR modelling of Coronavirus disease (COVID-19) outbreak in India: Models based on real-time data. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 345-350. https://doi.org/10.18280/mmep.070303
24	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 351-358. https://doi.org/10.18280/mmep.070304
25	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 359-367. https://doi.org/10.18280/mmep.070305
26	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 368-376. https://doi.org/10.18280/mmep.070306
27	Oloniiju, 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	Oloniiju, 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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 377-386. https://doi.org/10.18280/mmep.070307
28	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 387-394. https://doi.org/10.18280/mmep.070308
29	Al-awad, N.A.	Optimal controller design for reduced-order model of rotational mechanical system	rotational mechanical system, model reduction, PID controller, LQR controller, G.A-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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 395-402. https://doi.org/10.18280/mmep.070309
30	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 403-410. https://doi.org/10.18280/mmep.070310
31	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 411-420. https://doi.org/10.18280/mmep.070311
32	Chaabane, R., Jemni, 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., Jemni, A. (2020). On the numerical treatment of magneto-hydro dynamics free convection with mixed boundary conditions. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 421-426. https://doi.org/10.18280/mmep.070312
33	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 427-435. https://doi.org/10.18280/mmep.070313
34	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 436-440. https://doi.org/10.18280/mmep.070314
35	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 441-449. https://doi.org/10.18280/mmep.070315
36	Janamala, V., Pandraju, 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., Pandraju, T.K.S. (2020). Static voltage stability of reconfigurable radial distribution system considering voltage dependent load models. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 450-458. https://doi.org/10.18280/mmep.070316
37	Farida, A., Sihem, 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, tetrakaidecahedra structure turbulence, volumetric solar receiver	7, 3, 459-464	https://doi.org/10.18280/mmep.070317	Farida, A., Sihem, D., Zeroual, A. (2020). Numerical simulation of air flow and temperature distribution in volumetric solar receiver consisting of a porous medium. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 459-464. https://doi.org/10.18280/mmep.070317
38	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 465-475. https://doi.org/10.18280/mmep.070318
39	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 476-482. https://doi.org/10.18280/mmep.070319
40	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 distraction (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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 483-492. https://doi.org/10.18280/mmep.070320
41	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 3, pp. 493-500. https://doi.org/10.18280/mmep.070321
42	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 173-177. https://doi.org/10.18280/mmep.070201
43	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 178-186. https://doi.org/10.18280/mmep.070202
44	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 187-195. https://doi.org/10.18280/mmep.070203

45	Abu-Bakr, A.F., Iskakova, 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., Iskakova, L.Y., Zubarev, A.Y. (2020). Heat exchange within the surrounding biological tissue during magnetic hyperthermia. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 196-200. https://doi.org/10.18280/mmep.070204
46	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 201-204. https://doi.org/10.18280/mmep.070205
47	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-. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 205-211. https://doi.org/10.18280/mmep.070206
48	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. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 212-222. https://doi.org/10.18280/mmep.070207
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52	Benkharroubi, H., Mimouni, A., Bendaoud, A.	Mathematical modelling of electric field generated by vertical grounding electrode in horizontally stratified soil using the FDTD method	FDTD, transient grounding, electric field, electromagnetic compatibility, stratified soil	7, 2, 251-257	https://doi.org/10.18280/mmep.070211	Benkharroubi, H., Mimouni, A., Bendaoud, A. (2020). Mathematical modelling of electric field generated by vertical grounding electrode in horizontally stratified soil using the FDTD method. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 251-257. https://doi.org/10.18280/mmep.070211
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57	Goeritno, A.	Implementation of the coordination equation for determining the transport-related losses in economic dispatch phenomena	coordination equation, economic dispatch phenomena, the power loss on transmission line	7, 2, 293-298	https://doi.org/10.18280/mmep.070216	Goeritno, A. (2020). Implementation of the coordination equation for determining the transport-related losses in economic dispatch phenomena. Mathematical Modelling of Engineering Problems, Vol. 7, No. 2, pp. 293-298. https://doi.org/10.18280/mmep.070216
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93	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 4, pp. 575-580. https://doi.org/10.18280/mmep.060413
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95	Tarrad, A.H., Khudor, D.S.	Thermal performance prediction for air flow in a wavy corrugated duct at steady-state constant heat flux mode and early stages of turbulent flow conditions	enhancement, heat transfer, wavy surfaces, correlation, constant heat flux	6, 4, 589-598	https://doi.org/10.18280/mmep.060415	Tarrad, A.H., Khudor, D.S. (2019). Thermal performance prediction for air flow in a wavy corrugated duct at steady-state constant heat flux mode and early stages of turbulent flow conditions. Mathematical Modelling of Engineering Problems, Vol. 6, No. 4, pp. 589-598. https://doi.org/10.18280/mmep.060415
96	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]. Mathematical Modelling of Engineering Problems, Vol. 6, No. 4, pp. 599-610. https://doi.org/10.18280/mmep.060416
97	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 4, pp. 611-624. https://doi.org/10.18280/mmep.060417
98	Mondal, R.K., Reza-E-Rabbi, S., Gharami, P.P., Ahmmed, 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., Ahmmed, S.F., Arifuzzaman, S.M. (2019). A simulation of Casson fluid flow with variable viscosity and thermal conductivity effects. Mathematical Modelling of Engineering Problems, Vol. 6, No. 4, pp. 625-633. https://doi.org/10.18280/mmep.060418
99	Madan, R., Saha, K., Bhowmick, S.	Limit elastic analysis of E-FGM rotating disk with temperature dependent mechanical properties	limit elastic speed, fg rotating disk, modified rule of mixture, effective yield stress variation	6, 4, 634-640	https://doi.org/10.18280/mmep.060419	Madan, R., Saha, K., Bhowmick, S. (2019). Limit elastic analysis of E-FGM rotating disk with temperature dependent mechanical properties. Mathematical Modelling of Engineering Problems, Vol. 6, No. 4, pp. 634-640. https://doi.org/10.18280/mmep.060419
100	Machavarapu, S., Rao, M.V.G., Rao, P.V.R.	Machine learning algorithm based static VAR compensator to enhance voltage stability of multi-machine power system	voltage stability, SVC FACTS controller, susceptance model, firing angle model, BPNN algorithm, ELM algorithm	6, 4, 641-649	https://doi.org/10.18280/mmep.060420	Machavarapu, S., Rao, M.V.G., Rao, P.V.R. (2019). Machine learning algorithm based static VAR compensator to enhance voltage stability of multi-machine power system. Mathematical Modelling of Engineering Problems, Vol. 6, No. 4, pp. 641-649. https://doi.org/10.18280/mmep.060420
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105	Nagaraju, K.R., Mahabaleshwar, U.S., Krimpeni, A.A., Sarris, I.E., Lorenzini, G.	Impact of mass transpiration on unsteady boundary layer flow of impulsive porous stretching	darcy number, ADM, mass suction/injection, pade approximants	6, 3, 349-354	https://doi.org/10.18280/mmep.060305	Nagaraju, K.R., Mahabaleshwar, U.S., Krimpeni, A.A., Sarris, I.E., Lorenzini, G. (2019). Impact of mass transpiration on unsteady boundary layer flow of impulsive porous stretching. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 349-354. https://doi.org/10.18280/mmep.060305
106	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 355-362. https://doi.org/10.18280/mmep.060306
107	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 363-368. https://doi.org/10.18280/mmep.060307
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110	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 390-396. https://doi.org/10.18280/mmep.060310

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112	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 409-414. https://doi.org/10.18280/mmep.060312
113	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 415-427. https://doi.org/10.18280/mmep.060313
114	Fasogbon, S.K., Oyelami, F.H., Adetimirin, E.O., Ige, E.O.	On blasius plate solution of particle dispersion and deposition in human respiratory track	combust fuel, environmental pollution, bio-fuel combusts, combust fossil aerosol, blasius solution	6, 3, 428-432	https://doi.org/10.18280/mmep.060314	Fasogbon, S.K., Oyelami, F.H., Adetimirin, E.O., Ige, E.O. (2019). On blasius plate solution of particle dispersion and deposition in human respiratory track. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 428-432. https://doi.org/10.18280/mmep.060314
115	Qin, Y.P., Zheng, C.F.	A backpropagation neural network-based flexural-tensile strength prediction model for asphalt mixture in cold regions under cyclic thermal stress	cold regions, asphalt mixture, flexural-tensile strength, Backpropagation Neural Network (BPNN), regression analysis	6, 3, 433-436	https://doi.org/10.18280/mmep.060315	Qin, Y.P., Zheng, C.F. (2019). A backpropagation neural network-based flexural-tensile strength prediction model for asphalt mixture in cold regions under cyclic thermal stress. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 433-436. https://doi.org/10.18280/mmep.060315
116	Qin, Y.P., Zheng, C.F.	Analysis of aspect ratio effects of left heated 2D cavity using energy streamlines and field synergy principle	Rayliegh 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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 437-448. https://doi.org/10.18280/mmep.060316
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118	Leonidovich, P.E.	On development of analytical approach for analysis of energy transfer of traveling wave tube	traveling wave tube, analysis of operating regimes, analysis of energy transfer, increasing of efficiency, analytical approach for analysis	6, 3, 455-459	https://doi.org/10.18280/mmep.060318	Leonidovich, P.E. (2019). On development of analytical approach for analysis of energy transfer of traveling wave tube. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 455-459. https://doi.org/10.18280/mmep.060318
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120	Oyelami, A.T., Olusunle, S.O.O.	Spherical storage tank development through mathematical modeling of constituent sections	modeling, pressurized sections, sphere and stresses	6, 3, 467-473	https://doi.org/10.18280/mmep.060320	Oyelami, A.T., Olusunle, S.O.O. (2019). Spherical storage tank development through mathematical modeling of constituent sections. Mathematical Modelling of Engineering Problems, Vol. 6, No. 3, pp. 467-473. https://doi.org/10.18280/mmep.060320
121	Abderrahim A., Ghellai N., Bouzid Z., Menni Y.	Wind energy resource assessment in south western of Algeria	wind energy, wind resource, assessment wind potential, weibull parameters, the southwest of algeria	6, 2, 157-162	https://doi.org/10.18280/mmep.060201	Abderrahim, A., Ghellai, N., Bouzid, Z., Menni, Y. (2019). Wind energy resource assessment in south western of Algeria. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 157-162. https://doi.org/10.18280/mmep.060201
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123	Y. Menni, A.J. Chamkha, G. Lorenzini, B. Benyoucef	Computational fluid dynamics based numerical simulation of thermal and thermo-hydraulic performance of a solar air heater channel having various ribs on absorber plates	nusselt number, skin friction coefficient, thermal enhancement factor, ribs, obstacles, CFD	6, 2, 170-174	https://doi.org/10.18280/mmep.060203	Menni, Y., Chamkha, A.J., Lorenzini, G., Benyoucef, B. (2019). Computational fluid dynamics based numerical simulation of thermal and thermo-hydraulic performance of a solar air heater channel having various ribs on absorber plates. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 170-174. https://doi.org/10.18280/mmep.060203
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125	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 lnside enlarged rectangular channel. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 183-187. https://doi.org/10.18280/mmep.060205
126	Ayano, M.S., Otegbeye, O., Motsa, S.S.	MHD mixed convection chemically reactive casson 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, soret and dufour	6, 2, 188-196	https://doi.org/10.18280/mmep.060206	Ayano, M.S., Otegbeye, O., Motsa, S.S. (2019). MHD mixed convection chemically reactive casson fluid flow over an inclined stretching/shrinking sheet: Paired quasilinearization approach (PQLM). Mathematical Modelling of Engineering Problems, Vol. 6 No. 2, pp. 188-196. https://doi.org/10.18280/mmep.060206
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129	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 217-228. https://doi.org/10.18280/mmep.060209
130	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 229-234. https://doi.org/10.18280/mmep.060210
131	Radid A., Rhofir 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., Rhofir, K. (2019). Partitioning differential transformation for solving integro-differential equations problem and application to electrical circuits. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 235-240. https://doi.org/10.18280/mmep.060211
132	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. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 241-248. https://doi.org/10.18280/mmep.060212

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135	Pengpom N., Vongpradubchai S., Rattanadecho P.	Numerical analysis of pollutant concentration dispersion and convective flow in a two-dimensional confluent river model	pollutant concentration dispersion, confluent river, convective heat transfer	6, 2, 271-279	https://doi.org/10.18280/mmep.060215	Pengpom, N., Vongpradubchai, S., Rattanadecho, P. (2019). Numerical analysis of pollutant concentration dispersion and convective flow in a two-dimensional confluent river model. Mathematical Modelling of Engineering Problems, Vol. 6, No. 2, pp. 271-279. https://doi.org/10.18280/mmep.060215
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143	Menni Y., Chamkha A.J., Zidani C., Benyoucef B.	Heat and nanofluid transfer in baffled channels of different outlet models	nanofluid, forced convection, turbulent flow, fluid mechanics, baffle, channel	6, 1, 21-28	https://doi.org/10.18280/mmep.060103	Menni, Y., Chamkha, A.J., Zidani, C., Benyoucef, B. (2019). Heat and nanofluid transfer in baffled channels of different outlet models. Mathematical Modelling of Engineering Problems, Vol. 6, No. 1, pp. 21-28. https://doi.org/10.18280/mmep.060103
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151	Bikku T.	An indigenous tool (NoJavaCloud) to handle virtual nodes to simulate the cloud tasks	cloudsim, cloud computing, data management, NoJavaCloud	6, 1, 85-91	https://doi.org/10.18280/mmep.060111	Bikku, T. (2019). An indigenous tool (NoJavaCloud) to handle virtual nodes to simulate the cloud tasks. Mathematical Modelling of Engineering Problems, Vol. 6, No. 1, pp. 85-91. https://doi.org/10.18280/mmep.060111
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183	Balocco C., Petrone G.	Heat and moisture transfer investigation of surface building materials	moisture buffer, adsorption/desorption, porous material, CFD, transient simulation	5, 3, 146-152	https://doi.org/10.18280/mmep.050303	Balocco, C., Petrone, G. (2018). Heat and moisture transfer investigation of surface building materials. Mathematical Modelling of Engineering Problems, Vol. 5, No. 3, pp. 146-152. https://doi.org/10.18280/mmep.050303
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