

Załącznik 3

1. Spis głównej literatury wykorzystanej podczas przygotowania pracy doktorskiej.

Główne pozycje literaturowe wykorzystywane w przygotowaniu rozprawy doktorskiej:

- [1] Abdelkader BA, Zubair SM. The Effect of a Number of Baffles on the Performance of Shell-and-Tube Heat Exchangers. *Heat Transf Eng* 2019;40:1-2:39-52. DOI:10.1080/01457632.2017.1404806.
- [2] Afonso I, Hes L, Maia J, Melo L. Heat transfer and rheology of stirred yogurt during cooling in plate heat exchangers. *J of Food Eng* 2003;57:2:179-187. 10.1016/S0260-8774(02)00296-0.
- [3] Almas M. Numerical study of fluid flow over bundle tubes, *Journal of Electronics Cooling and Thermal Control* 2016;6:3:109-119. 10.4236/jectc.2016.63010.
- [4] ANSYS Inc. *ANSYS Fluent Theory Guide*. 18.2. Canonsburg: 2017.
- [5] ANSYS Inc. *ANSYS FLUENT User Guide*. 18.2. Canonsburg: 2017.
- [6] Athanasios N, Nikolaos N, Nikolaos M, Panagiotis G, Kakaras E. Optimization of a log wood boiler through CFD simulation methods. *Fuel Process Technol* 2015;137:75-92. <https://doi.org/10.1016/j.fuproc.2015.04.010>.
- [7] Barde A, Nithyanandam K, Shinn M, Wirz RE. Sulfur heat transfer behavior for uniform and non-uniform thermal charging of horizontally-oriented isochoric thermal energy storage systems. *Int J Heat Mass Transf* 2020;153:119556. <https://doi.org/10.1016/j.ijheatmasstransfer.2020.119556>.
- [8] Barichello LB, Siewert CE. A discrete-ordinates solution for a non-grey model with complete frequency redistribution. *J Quant Spectrosc Radiat Transf* 1999;62:665-675. [https://doi.org/10.1016/S0022-4073\(98\)00096-X](https://doi.org/10.1016/S0022-4073(98)00096-X).
- [9] Barma MC, Saidur R, Rahman SMA, Allouhi A, Akash BA, Sait SM. A review on boilers energy use, energy savings, and emissions reductions. *Renew Sustain Energy Rev* 2017;79:970-983. <https://doi.org/10.1016/j.rser.2017.05.187>.
- [10] Bermúdez CA, Porteiro J, Varela LG, Chapela S, Pati?o D. Three-dimensional CFD simulation of a large-scale grate-fired biomass furnace. *Fuel Process Technol* 2020;198:106219. <https://doi.org/10.1016/j.fuproc.2019.106219>.
- [11] Blaszcuk A, Nowak W. The Impact of Bed Temperature on Heat Transfer Characteristic between Flui-dized Bed and Vertical Rifled Tubes. *J Therm Sci* 2016;25:476-483. <https://doi.org/10.1007/s11630-016-0887-2>.
- [12] Blaszcuk A, Pogorzelec M, Shimizu T. Heat transfer characteristics in a large-scale bubbling fluidized bed with immersed horizontal tube bundles. *Energy* 2018;162:10-19. <https://doi.org/10.1016/j.energy.2018.08.008>.
- [13] Bösenhofer M, Wartha EM, Jordan C, Harasek M. The eddy dissipation concept-analysis of different fine structure treatments for classical combustion. *Energies* 2018;11:1-21. <https://doi.org/10.3390/en11071902>.
- [14] Brumercik F, Sojcak D, Lukac M, Nieoczym A, Wierzbicki S. Modeling of flow and temperature field in an economizer. *Appl Comp Sci* 2016;12:2:63-73.
- [15] Buczynski RB, Weber R, Szlek A, Nosek R. Time-Dependent Combustion of Solid Fuels in a Fixed-Bed: Measurements and Mathematical Modeling. *Energy & Fuels* 2012;26:4767-4774. <https://doi.org/10.1021/ef300676r>.
- [16] Buczynski R, Weber R, Szlek A. Innovative design solutions for small-scale domestic boilers: Combustion improvements using a CFD-based mathematical model. *J Energy Inst* 2015;88:53-63. <https://doi.org/10.1016/j.joei.2014.04.006>.
- [17] Chaney J, Liu H, Li J. An overview of CFD modelling of small-scale fixed-bed biomass pellet boilers with preliminary results from a simplified approach. *Energy Convers Manag* 2012;63:149-156. <https://doi.org/10.1016/j.enconman.2012.01.036>.

- [18] Chapela S, Porteiro J, Gómez MA, Pati?o D, Míguez JL. Comprehensive CFD modeling of the ash deposition in a biomass packed bed burner. *Fuel* 2018;234:1099-1122. <https://doi.org/10.1016/j.fuel.2018.07.121>.
- [19] Chapela S, Porteiro J, Míguez JL, Behrendt F. Eulerian CFD fouling model for fixed bed biomass combustion systems. *Fuel* 2020;278. <https://doi.org/10.1016/j.fuel.2020.118251>.
- [20] Chen Y, Moreira G. Modelling of a batch deep-fat frying process for tortilla chips. *Chem Eng Res and Des (Trans IchemE)* 1997;75:3:181-190. [10.1205/096030897531531](https://doi.org/10.1205/096030897531531).
- [21] Collazo J, Porteiro J, Pati?o D, Granada E. Numerical modeling of the combustion of densified wood under fixed-bed conditions. *Fuel* 2012;93:149-159. <https://doi.org/10.1016/j.fuel.2011.09.044>.
- [22] Commision Regulation (EU) 2015/1189 - of 28 April 2015 - implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for solid fuel boilers. 2015.
- [23] Directive 2009/125/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products. 2009.
- [24] Dulău M, Karoly M, Dulău T. Fluid temperature control using heat exchanger. *Procedia Manufacturing* 2018;22:498-505. doi.org/10.1016/j.promfg.2018.03.058.
- [25] Fetaka S, Thibault J, Gupta Y. Design of shell-and-tube heat exchangers using multiobjective optimization. *InT J of Heat and Mass Transf* 2013;60:343-354. [10.1016/j.ijheatmasstransfer.2012.12.047](https://doi.org/10.1016/j.ijheatmasstransfer.2012.12.047).
- [26] Fröchlich J, Terzi D. Hybrid LES/RANS methods for the simulation of turbulent flows. *Progress in Aerospace Sci* 2008;44:5,349-377. doi.org/10.1016/j.paerosci.2008.05.001.
- [27] Gautam A, Saini RP. Experimental investigation of heat transfer and fluid flow behavior of packed bed solar thermal energy storage system having spheres as packing element with pores. *Sol Energy* 2020;204:530-541. <https://doi.org/10.1016/j.solener.2020.05.024>.
- [28] Główny Urząd Statystyczny. Energia ze źródeł odnawialnych w 2018 r. Warszawa; 2019.
- [29] Główny Urząd Statystyczny. Zużycie energii w gospodarstwach domowych w 2018 r. 2019. <https://stat.gov.pl/en/topics/environment-energy/energy/energy-consumption-in-households-in-2018,2,5.html> (dostęp Marzec 15, 2021).
- [30] Gómez MA, Porteiro J, De la Cuesta D, Pati?o D, Míguez JL. Dynamic simulation of a biomass domestic boiler under thermally thick considerations. *Energy Convers Manag* 2017;140:260-272. <https://doi.org/10.1016/j.enconman.2017.03.006>.
- [31] Gómez MA, Porteiro J, de la Cuesta D, Pati?o D, Míguez JL. Numerical simulation of the combustion process of a pellet-drop-feed boiler. *Fuel* 2016;184:987-999. <https://doi.org/10.1016/j.fuel.2015.11.082>.
- [32] Gómez MA, Porteiro J, Pati?o D, Míguez JL. Eulerian CFD modelling for biomass combustion. Transient simulation of an underfeed pellet boiler. *Energy Convers Manag* 2015;101:666-680. <https://doi.org/10.1016/j.enconman.2015.06.003>.

- [33] Gómez MA, Porteiro J, Pati?o D, Míguez JL. Fast-solving thermally thick model of biomass particles embedded in a CFD code for the simulation of fixed-bed burners. *Energy Convers Manag* 2015;105:30-44. <https://doi.org/10.1016/j.enconman.2015.07.059>.
- [34] Gómez MAA, Martín R, Chapela S, Porteiro J. Steady CFD combustion modeling for biomass boilers: An application to the study of the exhaust gas recirculation performance. *Energy Convers Manag* 2019;179:91-103. <https://doi.org/10.1016/j.enconman.2018.10.052>.
- [35] Gu J, Zhang Y, Wu Y, Li Z, Tang G, Wang Q, et al. Numerical study of flow and heat transfer of supercritical water in rifled tubes heated by one side. *Appl Therm Eng* 2018;142:610-621. <https://doi.org/10.1016/j.aplthermaleng.2018.07.017>.
- [36] Isachenko V, Osipova V., Sukomel A. Heat Transfer, 3rd ed. Moscow: Mir Publishers; 1988.
- [37] Joachimiak M, Joachimiak D, Cia?kowski M, Ma?dziński L, Okoniewicz P, Ostrowska K. Analysis of the heat transfer for processes of the cylinder heating in the heat-treating furnace on the basis of solving the inverse problem. *Int J Therm Sci* 2019;145:105985. <https://doi.org/10.1016/j.ijthermalsci.2019.105985>.
- [38] Jones FE, Harris GL. ITS-90 density of water formulation for volumetric standards calibration. *J Res Natl Inst Stand Technol* 2012;97:335-340. <https://doi.org/10.6028/jres.097.013>.
- [39] Jójka J, Ślefarski R. Dimensionally reduced modeling of nitric oxide formation for premixed methane-air flames with ammonia content. *Fuel* 2018;217:98-105. <https://doi.org/10.1016/j.fuel.2017.12.070>.
- [40] Junga R, Wzorek M, Kaszubska M. Technical and environmental performance of 10 kW understocker boiler during combustion of biomass and conventional fuels. *E3S Web Conf* 2017;19:01009. <https://doi.org/10.1051/e3sconf/20171901009>.
- [41] Kerimray A, Rojas-Solórzano L, Torkmahalleh MA, Hopke PK, Gallachóir BP. Coal use for residential heating: Patterns, health implications and lessons learned. *Energy Sustain Dev* 2017;40:19-30. <https://doi.org/10.1016/j.esd.2017.05.005>.
- [42] Khodaei H, Al-Abdeli YM, Guzzomi F, Yeoh GH. An overview of processes and considerations in the modelling of fixed-bed biomass combustion. *Energy* 2015;88:946-972. <https://doi.org/10.1016/j.energy.2015.05.099>.
- [43] Klason T, Bai XS, Bahador M, Nilsson TK, Sundén B. Investigation of radiative heat transfer in fixed bed biomass furnaces. *Fuel* 2008;87:2141-2153. <https://doi.org/10.1016/j.fuel.2007.11.016>.
- [44] Kubica K. Stanowisko w sprawie działań rekomendowanych przez KERM na rzecz poprawy jakości powietrza w Polsce. Katowice; 2017.
- [45] Laubscher R, Rousseau P. Numerical investigation into the effect of burner swirl direction on furnace and superheater heat absorption for a 620 MWe opposing wall-fired pulverized coal boiler. *Int J Heat Mass Transf* 2019;506-22. <https://doi.org/10.1016/j.ijheatmasstransfer.2019.03.150>.
- [46] Lewandowski MT, Parente A, Pozorski J. Generalised Eddy Dissipation Concept for MILD combustion regime at low local Reynolds and Damköhler numbers. Part 1: Model framework development. *Fuel* 2020;278. <https://doi.org/10.1016/j.fuel.2020.117743>.
- [47] Li N, Chen J, Cheng T, Klemeš JJ, Varbanov PS, Wang Q, et al. Analysing thermal-hydraulic performance and energy efficiency of shell-and-tube heat exchangers with longitudinal flow based on experiment and numerical simulation. *Energy* 2020;202:117757. <https://doi.org/10.1016/j.energy.2020.117757>.

- [48] Li Z, Wu Y, Tang G, Zhang D, Lu J. Comparison between heat transfer to supercritical water in a smooth tube and in an internally ribbed tube. *Int J Heat Mass Transf* 2015;84:529-541. <https://doi.org/10.1016/j.ijheatmasstransfer.2015.01.047>.
- [49] Lipico Technologies. Technical References - Palm Oil Properties. http://www.lipico.com/technical_references_palm_oil_properties.html. (dostęp Kwiecień 4, 2019).
- [50] Maakala V, Järvinen M, Vuorinen V. Optimizing the heat transfer performance of the recovery boiler superheaters using simulated annealing, surrogate modeling, and computational fluid dynamics. *Energy* 2018;160:361-377. <https://doi.org/10.1016/j.energy.2018.07.002>.
- [51] Madejski P, Taler D, Taler J. Modeling of transient operation of steam superheater in CFB boiler. *Energy* 2019;182:965-974. <https://doi.org/10.1016/j.energy.2019.06.093>.
- [52] Madejski P. Numerical study of a large-scale pulverized coal-fired boiler operation using CFD modeling based on the probability density function method. *Appl Therm Eng* 2018;145:352-63. <https://doi.org/10.1016/j.applthermaleng.2018.09.004>.
- [53] Megagnato F, Pritz B, Gabi M. Calculation of the VKI turbine blade LES and DES. *J of Therm Science* 2007;16:4:321-327. 10.1007/s11630-007-0321-x.
- [54] Mehrabian R, Shiehnejadhesar A, Scharler R, Obernberger I. Multi-physics modelling of packed bed biomass combustion. *Fuel* 2014;122:164-178. <https://doi.org/10.1016/j.fuel.2014.01.027>.
- [55] Mehrabian R, Zahirovic S, Scharler R, Obernberger I, Kleditzsch S, Wirtz S, et al. A CFD model for thermal conversion of thermally thick biomass particles. *Fuel Process Technol* 2012;95:96-108. <https://doi.org/10.1016/J.FUPROC.2011.11.021>.
- [56] Mittal M, Sharma C, Singh R. Decadal emission estimates of carbon dioxide, sulfur dioxide, and nitric oxides emissions from coal burning in electric power generation plants in India. *Environ Monit and Assess* 2014;186:10:6857-6866. 10.1007/s10661-014-3894-3.
- [57] Morán JC, Tabarés JL, Granada E, Porteiro J, López González LM. Effect of different configurations on small pellet combustion systems. *Energy Sources, Part A Recover Util Environ Eff* 2006;28:1135-1148. <https://doi.org/10.1080/009083190910505>.
- [58] Nosek R, Jandacka J, Szlek A. Transaction on mechanical power and process simulation of coal combustion in small boiler. *Glob J Technol Optim* 2011;2:1-9.
- [59] Pipe Flow Calculations. Flue gases properties table. <https://www.pipeflowcalculations.com/tables/flue-gas.xhtml>, Accessed: Apr. 4, 2019.
- [60] Polák M, Neuberger P. The optimisation of biomass combustion. *Infrastruct Ecol Rural Areas* 2008;6:63-70.
- [61] Pudlik W. Termodynamika. Wydanie trzecie. Gdańsk: Wydawnictwo Politechniki Gdańskiej; 2011.
- [62] Rajh B, Yin C, Samec N, Hriberšek M, Kokalj F, Zadravec M. Advanced CFD modelling of air and recycled flue gas staging in a waste wood-fired grate boiler for higher combustion efficiency and greater environmental benefits. *J Environ Manage* 2018;218:200-208. <https://doi.org/10.1016/j.jenvman.2018.04.030>.

- [63] Rezazadeh N, Hosseinzadeh H, Wu B. Effect of burners configuration on performance of heat treatment furnaces. *Int J Heat Mass Transf* 2019;136:799-807. <https://doi.org/10.1016/j.ijheatmasstransfer.2019.01.113>.
- [64] Rezeau A, Díez LI, Royo J, Díaz-Ramírez M. Efficient diagnosis of grate-fired biomass boilers by a simplified CFD-based approach. *Fuel Process Technol* 2018;171:318-329. <https://doi.org/10.1016/j.fuproc.2017.11.024>.
- [65] Rohsenow W, Hartnett J. *Handbook of heat transfer*. New York: McGraw-Hill Education; 1999. <https://doi.org/10.5860/choice.36-3347>.
- [66] Ryfa A, Buczynski R, Chabinski M, Szlek A, Bialecki RA. Decoupled numerical simulation of a solid fuel fired retort boiler. *Appl Therm Eng* 2014;73:794-804. <https://doi.org/10.1016/j.applthermaleng.2014.08.029>.
- [67] Sazhin SS. An Approximation for the Absorption Coefficient of Soot in a Radiating Gas. 1994.
- [68] Scharler R, Gruber T, Ehrenhöfer A, Kelz J, Bardar RM, Bauer T, et al. Transient CFD simulation of wood log combustion in stoves. *Renew Energy* 2020;145:651-662. <https://doi.org/10.1016/j.renene.2019.06.053>.
- [69] Serth RW. *Process heat transfer: principles and applications*. Cambridge: Elsevier Academic Press; 2007
- [70] Silva J, Teixeira J, Teixeira S, Preziati S, Cassiano J. CFD Modeling of Combustion in Biomass Furnace. *Energy Procedia* 2017;120:665-672. <https://doi.org/10.1016/j.egypro.2017.07.179>.
- [71] Smith TF, Shen ZF, Friedman JN. Evaluation of coefficients for the weighted sum of gray gases model. *J Heat Transfer* 1982;104:602-608. <https://doi.org/10.1115/1.3245174>.
- [72] Souza-Santos ML. *Solid Fuels Combustion and Gasification: Modeling, Simulation, and Equipment Operations*. 2nd ed. CRC Press; 2010. <https://doi.org/10.1201/9781420047509>.
- [73] Spalart P et al. A New Version of Detached-eddy Simulation, Resistant to Ambiguous Grid Densities. *Theoret and Comput Fluid Dynamics* 2006;20:181-195. [10.1007/s00162-006-0015-0](https://doi.org/10.1007/s00162-006-0015-0).
- [74] Srikanth S et al. Analysis of failures in boiler tubes due to fireside corrosion in a waste heat recovery boiler. *Eng Failure Analysis* 2003;10:1:59-66. [10.1016/S1350-6307\(02\)00030-4](https://doi.org/10.1016/S1350-6307(02)00030-4).
- [75] Stala-Szlugaj K. Trends in the consumption of hard coal in Polish households compared to EU households. *Miner Resour Manag* 2016;32:5-22. <https://doi.org/10.1515/gospo-2016-0024>.
- [76] Stehlík P, Nemcanský J, Kral D, Swanson LW. Comparison of Correction Factors for Shell-and-Tube Heat Exchangers with Segmental or Helical Baffles. *Heat Transf Eng* 1994;15:1: 55-65. [10.1080/01457639408939818](https://doi.org/10.1080/01457639408939818).
- [77] Stull R. *An introduction to boundary layer meteorology*. Dordrecht: Kluwer Academic Publishers; 2003.
- [78] Subramanian R. Heat transfer in Flow Through Conduits. Dep of Chem and Biomolecular Eng, Clarkson University. <https://web2.clarkson.edu/projects/subramanian/ch330/notes/Heat%20Transfer%20in%20Flow%20Through%20Conduits.pdf>, (dostęp Kwiecień. 4, 2019).
- [79] Tae-Ho S. Comparison of engineering models of nongray behavior of combustion products. *Int J Heat Mass Transf* 1993;36:3975-3982. [https://doi.org/10.1016/0017-9310\(93\)90148-Y](https://doi.org/10.1016/0017-9310(93)90148-Y).

- [80] Taler D, Taler J, Trojan M. Thermal calculations of plate-fin-and-tube heat exchangers with different heat transfer coefficients on each tube row. *Energy* 2020;203:117806. <https://doi.org/10.1016/j.energy.2020.117806>.
- [81] Taler D, Taler J. Simplified analysis of radiation heat exchange in boiler superheaters. *Heat Transf Eng* 2009;30:661-669. <https://doi.org/10.1080/01457630802659953>.
- [82] Taler J, Taler D, KaczmarSKI K, Dzierwa P, Trojan M, Sobota T. Monitoring of thermal stresses in pressure components based on the wall temperature measurement. *Energy* 2018;160:500-519. <https://doi.org/10.1016/j.energy.2018.07.010>.
- [83] Taylor PB, Foster PJ. The total emissivities of luminous and non-luminous flames. *Int J Heat Mass Transf* 1974;17:1591-1605. [https://doi.org/10.1016/0017-9310\(74\)90067-2](https://doi.org/10.1016/0017-9310(74)90067-2).
- [84] TNO. Phyllis 2. Baza danych paliw Physico-Chemical Compos Lignocellul Biomass, Micro- Macroalgae, Var Feed Biogas Prod Biochar 2020. <https://phyllis.nl/> (dostęp Wrzesień 8, 2020).
- [85] Tu Y, Yang W, Siah KB, Prabakaran S. Effect of different operating conditions on the performance of a 32 MW woodchip-fired grate boiler. *Energy Procedia* 2019;158:898-903. <https://doi.org/10.1016/j.egypro.2019.01.228>.
- [86] Tu Y, Zhou A, Xu M, Yang W, Siah KB, Subbaiah P. NOX reduction in a 40?t/h biomass fired grate boiler using internal flue gas recirculation technology. *Appl Energy* 2018;220:962-973. <https://doi.org/10.1016/j.apenergy.2017.12.018>.
- [87] Tuliszka E. Termodynamika Techniczna. Warszawa: PWN; 1978.
- [88] Urząd Regulacji Energetyki. Energetyka cieplna w liczbach - 2019. Warszawa; 2020.
- [89] Vasquez ER, Eldredge T. Process modeling for hydrocarbon fuel conversion. *Adv Clean Hydrocarb Fuel Process Sci Technol.* 2011; 509-545. <https://doi.org/10.1533/9780857093783.5.509>.
- [90] Versteeg H, Malalasekera W. An introduction to Computational Fluid Dynamics, 2nd ed. Harlow : Pearson Education; 2007.
- [91] Wang H, Zhang C, Liu X. Heat transfer calculation methods in three-dimensional CFD model for pulverized coal-fired boilers. *Appl Therm Eng* 2020;166:114633. <https://doi.org/10.1016/j.aplthermaleng.2019.114633>.
- [92] Wiese J, Wissing F, Höhner D, Wirtz S, Scherer V, Ley U, et al. DEM/CFD modeling of the fuel conversion in a pellet stove. *Fuel Process Technol* 2016;152:223-239. <https://doi.org/10.1016/j.fuproc.2016.06.005>.
- [93] Wiese J, Wissing F, Höhner D, Wirtz S, Scherer V, Ley U, et al. DEM/CFD modeling of the fuel conversion in a pellet stove. *Fuel Process Technol* 2016;152:223-239. <https://doi.org/10.1016/j.fuproc.2016.06.005>.
- [94] Wilcox DC. Formulation of the k- ϵ turbulence model revisited. *AIAA J.* 2008;46:2823-2838. <https://doi.org/10.2514/1.36541>.
- [95] Xiang B, Zhang M, Yang H, Lu J. Prediction of acid dew point in flue gas of boilers burning fossil fuels. *Energy Fuels* 2016;30:4:3365-3373. [10.1021/acs.energyfuels.6b00491](https://doi.org/10.1021/acs.energyfuels.6b00491).
- [96] YıldızE, Başol AM, Mengüç MP. Segregated modeling of continuous heat treatment furnaces. *J Quant Spectrosc Radiat Transf* 2020;249:106993. <https://doi.org/10.1016/j.jqsrt.2020.106993>.
- [97] Yadav S, Mondal SS. Modelling of oxy-pulverized coal combustion to access the influence of steam addition on combustion characteristics. *Fuel* 2020;271. <https://doi.org/10.1016/j.fuel.2020.117611>.

- [98] Yang J-H, Kim J-EA, Hong J, Kim M, Ryu C, Kim YJ, et al. Effects of detailed operating parameters on combustion in two 500-MWe coal-fired boilers of an identical design. *Fuel* 2015;144:145-56. <https://doi.org/10.1016/j.fuel.2014.12.017>.
- [99] Zhang X, Yuan J, Chen Z, Tian Z, Wang J. A dynamic heat transfer model to estimate the flue gas temperature in the horizontal flue of the coal-fired utility boiler. *Appl Therm Eng* 2018;135:368-378. <https://doi.org/10.1016/j.applthermaleng.2018.02.067>.
- [100] Ziegler B, Mosiężny J, Czyżewski P. Unsteady CHT analysis of a solid state, sensible heat storage for PHES system. *Int J Numer Methods Heat Fluid Flow* 2020;60:6:3199-3209. <https://doi.org/10.1108/HFF-11-2018-0701>.
- [101] Zubanov VM, Stepanov DV., Shabliy LS. The technique for Simulation of Transient Combustion Processes in the Rocket Engine Operating with Gaseous Fuel hydrogen and Oxygen. *J Phys Conf Ser* 2017;803:1-6. <https://doi.org/10.1088/1742-6596/803/1/012187>.