REFERENCES

- Bejan, A., Lorente, S., "The constructal law and the thermodynamics of flow systems with configuration," *Int. J. Heat Mass Transf*, 47 (14), 3203–3214, 2004. DOI: <u>10.1016/j.ijheatmasstransfer.2004.02.007</u>.
- Bejan, A., Lorente, S., "The constructal law and the evolution of design in nature," *Phys. Life Rev.*, 8 (3), 209–240, 2011. DOI: <u>10.1016/j.plrev.2011.05.010</u>.
- Muzychka, Y.S., "Constructal design of forced convection cooled microchannel heat sinks and heat exchangers," *Int. J. Heat Mass Transf.*, 48 (15), 3119– 3127, 2005. DOI: 10.1016/j.ijheatmasstransfer.2005.02.014.
- Muzychka, Y.S., "Constructal multi-scale design of compact micro-tube heat sinks and heat exchangers," *Int. J. Therm. Sci.*, 46 (3), 245–252, 2007. DOI: 10.1016/j.ijthermalsci.2006.05.002.
- Bello-Ochende, T., Liebenberg, L., Meyer, J.P., "Constructal cooling channels for micro-channel heat sinks," *Int. J. Heat Mass Transf.*, 50 (21), 4141–4150, 2007. DOI: <u>10.1016/j.ijheatmasstransfer.2007.02.019</u>.
- 6. Bello-Ochende, T., Meyer, J.P., and Ighalo, F., "Combined numerical optimisation and constructal theory for the design of micro-channel heat sinks," *Numer. Heat Transf. Part A Appl.*, 58, 1–32, 2010.
- Bello-Ochende, T., Liebenberg, L., Meyer, J.P., "Constructal design: geometric optimization of microchannel heat sinks," (December) 483–489, 2007.
- Bello-Ochende, T., Liebenberg, L., Malan, A.G., Bejan, A., Meyer, J.P., "Constructal Conjugate Heat Transfer in Three-Dimensional Cooling Channels," *J. Enhanc. Heat Transf.* 14 (4), 279–293, 2007. DOI: 10.1615/JEnhHeatTransf.v14.i4.20.
- 9. Adewumi, O.O., Bello-Ochende, T., Meyer, J.P., "Constructal design of combined microchannel and micro pin fins for electronic cooling," *Int. J. Heat Mass*

Transf. 66 315–323, 2013. DOI: 10.1016/j.ijheatmasstransfer.2013.07.039.

- Olakoyejo, O.T., Bello-Ochende, T., Meyer, J.P., "Mathematical optimisation of laminar forced convection heat transfer through a vascularised solid with square channels," *Int. J. Heat Mass Transf.*, 55 (9), 2402–2411, 2012. DOI: 10.1016/j.ijheatmasstransfer.2011.12.036.
- Salimpour, M.R., Sharifhasan, M., Shirani, E., "Constructal optimization of the geometry of an array of micro-channels," *Int. Commun. Heat Mass Transf.*, 38 (1), 93–99, 2011. DOI: 10.1016/j.icheatmasstransfer.2010.10.008.
- Xie, G., Zhang, F., Sundén, B., Zhang, W., "Constructal design and thermal analysis of microchannel heat sinks with multistage bifurcations in single-phase liquid flow," *Appl. Therm. Eng.* 62 (2), 791–802, 2014. DOI: <u>10.1016/j.applthermaleng.2013.10.042</u>.
- 13. ANSYS FLUENT 14.0 User's Guide, vol. 15317, 2011.
- Petrescu, S., "Comments on the optimal spacing of parallel plates cooled by forced convection," *Int. J. Heat Mass Transf.*, 37, 1283, 1994. DOI: <u>10.1016/0017-</u> <u>9310(94)90213-5</u>.
- 15. Bhattacharjee, S., Grosshandler, W.L., "The formation of a wall jet near a high temperature wall under microgravity environment," *ASME 1988 Natl. Heat Transf. Conf.*, Vol. 1, 1 711–716, 1988.
- 16. Pantakar, S.V., *Numerical Heat Transfer and Fluid Flow*, Hemisphere Publishing Corp., New York, USA 1980.
- Khuri, A.I., Mukhopadhyay, S., "Response surface methodology," *Wiley Interdiscip. Rev. Comput. Stat.*, 2 (2), 128–149, 2010.
- Myers, R.H., Montgomery, D.C., Anderson-Cook, C.M., Response Surface Methodology: Process and Product Optimization Using Designed Experiments, John Wiley & Sons, 2009.