

AUTHOR INSTRUCTIONS

COMPUTATIONAL THERMAL SCIENCES

DESCRIPTION OF PAPERS CONSIDERED FOR PUBLICATION: Papers on all modes of heat and mass transfer will be included: conduction, convection, diffusion, radiation and phase change. Topics to be covered will also include the laws of thermodynamics, the thermal properties of substances, engine and refrigeration cycles and combustion.

Papers on all aspects – both fundamental and applied – will be welcome. The development of new mathematical methods and computational algorithms, including the application of new or existing methods to the solution of problems in the thermal sciences, is also emphasized. Reports of experimental studies undertaken in conjunction with computational work are encouraged. In addition, review papers on relevant topics are invited as is correspondence on published papers. The assessment of the accuracy of computational solutions through verification (examining and limiting errors associated with discretization and with the computational solution methods adopted) and validation (quantification of errors in the physical models used) are essential parts of any computational study, and authors are expected to examine these aspects.

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Book: Nield, D.A. and Bejan, A., *Convection in Porous Media*, New York: Springer-Verlag, pp. 125–176, 2005.

e-Books: Buyevich, Yu.A. and Alexandrov, D.V., *Heat Transfer in Dispersions*, Connecticut: Begell House, accessed May 5, 2005, from http://www.begellhouse.com/ebook_platform/56b7e0bb224cbbf7f98f1e271b3e77a.html, 2005.

Edited Book: Yang, W. and Kim, J.H. Eds., *Rotating Machinery*, New York: Begell House, 1992.

Edited Book Chapter: Nishikawa, K. and Ito, T., Augmentation of Nucleate Boiling Heat Transfer by Prepared Surfaces, in *Heat Transfer in Energy Problems*, T. Mizushima and W.J. Yang, Eds., Washington, D.C.: Hemisphere Publishing, pp. 111–1182, 1982.

Conference Proceedings: Ma, T.M., Effects of Geometrical Shapes of Reentrant Grooves on Boiling Heat Transfer from Porous Surfaces, *Heat Transfer 1986, Proc. of 8th Int. Heat Trans. Conf.*, San Francisco, CA, vol. 4, pp. 2013–2018, 1987.

Dissertation: Richmond, J., Steady State Thermal Conductivity, PhD, University of Connecticut, 2004.

Journals:

Print Article: Nakayama, W. and Nakajima, T., Effects of Pore Diameters and System Pressure on Saturated Pool Nucleate Boiling Heat Transfer from Porous Surfaces, *J. Enhanced Heat Trans.*, vol. 104, no. 2, pp. 286–291, 1982.

Online Scholarly Article: Author, A.A., and Author, B.B., Title of Article. *Title of Journal*, vol. **10**, accessed June 10, 1999, from <http://www.someaddress.com/full/url/>, 1995.

Online Scholarly Article with DOI: Nesterov, D. and Dmitriev, G., Investigation of Loop Heat Pipe Oscillating Behavior using Numerical Simulation, *Heat Pipes Sci. Technol.*, vol. **6**, nos. 1-2, pp. 25-49, 2015. DOI: 10.1615/HeatPipeScieTech.2015012224

Paper or Poster: Authani A.R., Lang LE, Thomas I.M., and Leena V.W., Scientific Images that Change the World, paper presented at, *VIIIP 2012, Proc. of 3rd Int. Conf. on Visualization, Imaging and Processing*, Madrid, Spain, 2012.

Patent: Inventor, A.A., Inventor, B.B., and Inventor, C.C., Cement Admixture. US Patent 4,586,960, filed June 26, 1984, and issued May 6, 1986.

Report: Robert, E.E. *et al.*, Oxygen Absorption in the Atmosphere, Aerospace Corp., Los Angeles, CA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.

Web Documents:

Chapter or Section: Author, A.A. and Author, B.B., Title of Article, in *Title of Book or Larger Document* (chapter or section number), accessed April 1, 2014, from <http://www.someaddress.com/full/url/>, 2000.

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