

Khosrow Jafarpur

Born on 2nd October 1957

Married

Father of two children

Current Address:

School of Mechanical Engineering
Shiraz University
Shiraz, Iran

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Education:

1980 B.Sc., Mechanical Engineering, Shiraz University, Shiraz, Iran.

1986 M.Sc., Mechanical Engineering, Shiraz University, Shiraz, Iran.

1992 Ph.D., Mechanical Engineering, University of Waterloo, Canada.

Professional Experience:

Dec. 2013 - Present	Professor, School of Mechanical Engineering, Shiraz University
Oct. 2003 - Dec. 2013	Associate Professor, School of Mechanical Engineering, Shiraz University
Oct. 2002- August 2003	Visiting Professor, Faculty of Engineering, Dalhousie University
Sept. 1992 – Sept. 2002	Assistant Professor, Dept. of Mechanical Engineering, Shiraz University.
April 1992 – August 1992	Post-Doctoral, Department of Mechanical Engineering, University of Waterloo.
Dec. 1986 – Mar. 1992	Research Assistant, Department of Mechanical Engineering, University of Waterloo.
July 1984 – Oct. 1986	Research Assistant, Department of Mechanical Engineering, Shiraz University.
Jan. 1984 – July 1984	Design Engineer, Petrochemical Plant, Shiraz, Iran.
May 1983 – Jan. 1984	Research Engineer, Solar Energy Center, Shiraz University.

Sept. 1982 – May 1983	Lab. Supervisor, Department of Mechanical Engineering, Shiraz University.
June 1980 – June 1982	Mechanical Engineer (military service).
Feb. 1980 – June 1980	Research Assistant, Department of Mechanical Engineering, Shiraz University.

Professional Service

Service on Committees at National Level (in Iran)

- Mechanical Engineering Planning Committee, Iranian Ministry of Higher Education.
- Industry Committee, Iranian National Research Center.

Service at the University Level (at Shiraz University)

- Vice-Chancellor for Academic Affairs (Aug.,2004- Oct.,2005)
- Vice-Chancellor for Technical and Development (Feb.,1998- Jul.,1999)
- Vice-Dean for Research, School of Engineering (Oct.,1996- Oct.,1997)
- Chairman, Mechanical Engineering Department (Nov.,1994- Dec.,1995)
- Vice-Dean for Administrative Affairs and Finance (Mar.,1993- Nov.,1994)
- Academic Council – The Selected Committee (1993 – 1998, 2000)
- Research Council (1996 - 1997)

Technical Consulting for Iranian Ministry of Power---Energy Affairs (1997-2000).

Speaker at numerous weekly seminars in School of Engineering, Shiraz University.

Supervision of Graduate Students

- Supervision and/or Co-supervision of MSc Thesis entitled:

Design and Fabrication of Constructal Networks for Cooling Heat Generating Bodies

An Investigation on the Thermal Performance of a One-Sided Slope Solar Still Connected to a Vacuum Tube Collector

Theoretical Study of Water Depth Effect in Active Multi-Stage Basin Solar Stills to enhance the Performance of the System

Study of Condensation Phenomenon and Effect of Condensing Surface's Slope On the Performance of a Basin Solar Still

Investigation on Different Ways of Saving Energy in Office Buildings by Estimating the Yearly Energy Demands for Cooling, Heating and Lighting With Emphasis on Using Daylight

Estimation of Solar Energy Potential in Iran and Development of an Algorithm Iranian Solar Radiation Atlas

Annual Simulation of an Integrated Solar Combined Cycle Power Plant with Gas-Turbine Inlet Air Cooling System at Central Area of Iran

Numerical Study of the Effect of Saccadic Movement of Human Eye or Motion and Deposition of Pigment Particles in Its Anterior Chamber

Numerical Study of Electrical Heaters' Performance in Heating the Air Inside a Room

Convection Heat Transfer From Isothermal Convex Bodies of Arbitrary Shape For Different Flow Regimes (Laminar and Turbulent)

Prediction of Laminar Free Convection Heat Transfer From Isothermal Concave Body Shapes

Design and Optimization of Floor Heating Based on Constructal Theory

Study of the Application of Constructal Theory in Arc Welding with the Approach of Residual Stress Reduction

Feasibility Study and Design of Photovoltaic Systems to Improve Production Processes in Fars Food Industry

Modeling and Optimization of Solar Cooling Absorption System for Residential Places in Shiraz, Iran

Chiller Selection Based Upon Constructal Design and Full-Load/Part-Load Optimal Conditions

Numerical Study of Boiling Parameters During Nanofluids Boiling Around Surfaces

Numerical Analysis for the Effect of Microstructures on the Heat Transfer and Liquid Mixing in Microchannels

Numerical Simulation of Drop Formation in a T-Shaped Microchannel Under a Magnetic Field

Optimum Reduction of Elastic Stresses in a Body by Means of Thermal Loading

Design and Optimization of Natural Gas Branching Distribution Systems Based on Constructal Theory

Application of Particle Swarm Optimization in Laminated Composite Structures

Cooling of a Solid-State Laser Slab By Using Nanofluids

Experimental Investigation of Nanoconvective Heat Transfer in W-Shape Tube Heat Exchangers

Entropy Generation Minimization Method in Axial-Bending and Periodic Compound Loading

Heat Transfer Analysis of Steel Blooms in Reheating Furnaces and the Optimization of Their Heating Process

An Investigation on Thermal Behavior of Welded Plates Under the Influence of Essential Thermal Welding Parameters

Modelling of Laminar Constant Temperature Pebble-Fluid Convection Heat Transfer in Homogenous Saturated Porous Media

Dynamic Behavior of Body Gravity Function In Laminar Free Convective Heat Transfer From Isothermal Convex of Bodies of Arbitrary Shape.

Thermal Modelling of Household Electrical Iron: Investigation of Temperature Distribution in the Sole Plate and Different Parameters in Optimizing its Energy Consumption.

Three Dimensional Numerical Solution of Fluid Flow and Heat Transfer Around Perforated Fins.

Investigation of the Performance of Oil Cooling System of Gas-Turbine Power Plants under the influence of Environmental Conditions.

Analysis of Dynamic Aerothermoelastic Behavior of Flat FGM Panels under Different Thermal Conditions.

Numerical Study of Laminar Flow and Heat Transfer from Slit-Louvered Plate Fin and Tube Heat Exchangers.

Application of Entropy Generation Minimization (EGM) Method in Solid Mechanics.

Experimental Study of Laminar Free Convection Heat Transfer from Isothermal Plates of Different Geometry (Vertical & Horizontal Orientations).

Adomian Decomposition Method Applied to Solve Convective Heat Transfer Problems, Emphasizing on Those Concerning Porous Media.

Determination of Heating & Cooling Loads/ Standards For Educational Buildings In Iran.

Study of Solar Active & Passive Heating Systems For Residential Buildings in Iran.

A Study on the Possibility of Heating & Cooling of Schools By Natural Wind Flow in Iran.

Prediction of Thermal Structure and Thermal Stratification in Doroudzan Lake.

Simulation of Tire Vulcanization Using Finite Volume Method.

Availability of Solar Energy in Iran & Development of Empirical Models to Predict Solar Radiation Intensity in Iran.

Conduction Limit Calculation Using Panel Method.

- Supervision or Co-Supervision of Ph.D. Thesis entitled:

Numerical Simulation of Nanofluids Boiling Using Multicomponent and Multiphase Lattice Boltzmann Method

Magnetic Nano-Particle Drug Delivery to Cancerous Tissues and Performing Hyperthermia: Two Dimensional Numerical Simulation of Nano-Fluid Flow and One-Dimensional Analytical Solution of Diffusion in Tissues

Thermoeconomic and Environmental Analysis for Synthesis of Trigeration Systems Using Organic Fluids with Fuel Cell and Renewable Energy Sources

Thermal Analysis of Constructal Designs Cooling Heat Generating Bodies

Molecular Dynamics Simulation for Nanofluids Thermal Conductivity Evaluation

Numerical and Experimental Analysis of Turbulent Convective Heat Transfer Within a Pressurized Water Channel With Nanofluids

Numerical Study of Thick Plate Structures with Multipass Welds to Improve the Final Distortions of Weldments.

In-plane Thermoelastic-Viscoplastic Modeling of Arc Welding with Special Reference to Optimization of Welding Sequence.

Taught Courses:

Graduate Courses

Advanced Heat Transfer: Conduction
Advanced Heat Transfer: Convection
Advanced Heat Transfer: Thermal Radiation
Experimental Methods in Thermo-Fluids

Undergraduate Courses

Heat Transfer I, Heat Transfer II
Thermodynamics I, Thermodynamics II (Applied Thermodynamics)
Thermodynamics (For Electrical Eng. Students)
Power Plants (For Mech. & Elect. Eng. Students)
Measuring Systems and Control; Industrial Management & Economy.

Research Interests:

Free Convection Heat Transfer

Renewable Energy: Solar & Wind Energy

Energy Conservation & Energy Saving

Heat Transfer (& Optimization) in Welding, Lakes, Porous Media, Nano

List of Publications

TECHNICAL REPORT

1. Jafarpur, K., 1984, “**Different Techniques in Estimating: Beam, Diffuse and Global Solar Radiation, A Review**”, Dept. of Mech. Eng., Shiraz University, Shiraz, Iran.
2. Yaghoubi, M.A., Jafarpur, K., and Golneshan, A.A., 1985, “**Global Solar Radiation Intensity on Various Orientations In Iran**”, Dept. of Mech. Eng., Shiraz University, Shiraz, Iran.

OTHER PUBLICATIONS

1. Jafarpur, K., 1986, “**Availability of solar energy in Shiraz and development of empirical models to predict solar radiation intensity in Fars Province**”, M.Sc. thesis, Dept. of Mech. Eng., Shiraz University, Shiraz, Iran.
2. Jafarpur, K., 1992, “**Analytical and experimental study of laminar free convective heat transfer from isothermal convex bodies of arbitrary shape**”, Ph.D. thesis, Dept. of Mech. Eng., University of Waterloo, Waterloo, Ontario, Canada.

JOURNAL PAPERS

1. *Gholaminezhad, I., Paydar, M.H., Jafarpur, K and Karimi, G.R., 2017, “Multi-Scale Multi-Objective Optimization and Uncertainty Analysis of Methane-Fed SOFCs Monte Carlo Simulations”, Submitted to the Journal of Energy Conversion and Management.*
2. *Gholaminezhad, I., Paydar, M.H., Jafarpur, K. and Paydar, S., 2017, “Multi-Scale Mathematical Modelling of Methane-Fueled SOFCs: Predicting Limiting Current Density Using a Modified Fick’s Model”, *Energy Conversion and Management*, 148, 222-237.*
3. *Hajiani Boushehrian, H., Abouali, O. and Jafarpur, K., 2016, “ Relationship Between Saccadic Eye Movements and Formation of the Krukenberg’s Spindle--- A Case Study”, *Mathematical Medicine and Biology*, DOI: 10.1093/imammb/dqw007.*
4. *Feilizadeh, M., Karimi Estahbanati, M.R., Ahsan, A., Jafarpur, K., Mersaghian, A., 2016, “Effects of Water and Basin Depths in Single Basin*

- Solar Still: An Experimental and Theoretical Study**", *Energy Conversion and Management*, 122, 174 – 181.
5. *Rostamzadeh, A., Jafarpur, K. and Goshtasbi Rad, E.*, 2016, “ **Numerical Investigation of Pool Nuclear Boiling in Nanofluid With Lattice Boltzman Method**”, *Journal of Theoretical and Applied Mechanics*, 54, 3, 811- 825.
 6. *Baghernejad, A., Yaghoubi, M. and Jafarpur, K.*, 2016, “**Exergoeconomic Comparison of Three Novel Trigenation Systems Using SOFC, Biomass and Solar Energies**”, *Applied Thermal Engineering*, 104. 534-555.
 7. *Baghernejad, A., Yaghoubi, M. and Jafarpur, K.*, 2016, “**Exergoeconomic Optimization and Environmental Analysis of a Novel Solar-Trigenation System for Heating, Cooling and Power Production Purpose**”, *Solar Energy*, 134, 165-179.
 8. *Arabi, P. and Jafarpur, K.*, 2016, “ **Effect of different Flow Regimes on Free Convection Heat Transfer From Isothermal Convex Bodies Over All Range of Rayleigh and Prandtl Numbers**”, *Heat Mass Transfer*, DOI: 10.1007/s00231-015-1683-3.
 9. *Arabi, P. and Jafarpur, K.*, 2016, “**Criteria for Predicting Transitions in Free Convection Heat Transfer from Isothermal Convex Bodies in Fluids with Any Prandtl Number: A New Analytical Model**”, *Heat Transfer Engineering*, DOI: 10.1080/01457632.2016.1200375.
 10. *Karimi Estahbanati, M.R., Amimul Ahsan, Feilizadeh, M., Jafarpur, K., Ashrafmansouri, S.S., and Feilizadeh, M.*, 2016, “**Theoretical and Experimental Investigation on Internal Reflectors in a Single-Slope Solar Still**”, *Applied Energy*, 165, 537-547.
 11. *Rostamzadeh, A, Goshtasbi Rad, E. and Jafarpur, K.*, 2016, “**Simulation of Flow and Heat Transfer of Nanofluid in an Eccentric Annulus with Multicomponent Lattice Boltzman Method**”, *Journal of Applied Fluid Mechanics*, Vol. 9, No. 5, 2581-2594.
 12. *Arabi, P. and Jafarpur, K.*, 2015, "**Effect of Different Flow Regimes on Free Convection Heat Transfer from Isothermal Convex Bodies Over All Range of Rayleigh and Prandtl Numbers**", to be appeared in *Heat and Mass Transfer*, DOI: 10.1007/s0023-015-1683-3.
 13. *Baghernejad, A., Yaghoubi, M. and Jafarpur, K.*, 2015, "**Optimum Power Performance of a New Integrated SOFC-Trigenation System by Multi-Objective Exergoeconomic Optimization**", *Electrical Power and Energy Systems*, 37, 899-912.
 14. *Jayhooni, S.M.H. and Jafarpur, K.*, 2015, "**Numerical Simulation of Laminar Free Convection Heat Transfer Around Isothermal Concave and Convex Body Shapes**", Accepted for publication at *Journal of Heat and Mass Transfer Research*, 2015-jhmtr-63.

15. Feilizadeh, M., Karimi Estahbanati, M.R., Jafarpur, K., Roostaazad, R., Feilizadeh, M. and Taghvaei, H., 2015, "**Year-Around Outdoor Experiments on a Multi-Stage Active Solar Still with Different Number of Collectors**", *Applied Energy*, DOI: 10.1016/j.apenergy.2015.04.084
16. Karimi Estahbanati, M.R., Feilizadeh, M., Jafarpur, K., Feilizadeh, M. and Rahimpour, M.R., 2015, "**Experimental Investigation of a Multi-Effect Active Solar Still: The Effect of the Number of Stages**", *Applied Energy*, 137, 46-55.
17. Eslami, M. and Jafarpur, K., 2014, "**Thermal Resistance Approach: An Engineering Tool for Improvement of Conductive Constructal Configuration**", *Journal of Heat Transfer*, 136, 081301-081310.
18. Taghvaei, H., Taghvaei, H., Jafarpur, K., Karimi E., M. R., Feilizadeh, M., Seddigh Ardekani, A. and Feilizadeh, M., 2014, "**A Through Investigation of the Effects of Water Depth on the Performance of Active Solar Stills**", *Desalination*, 347, 77 - 88.
19. Rostamzadeh, A., Jafarpur, K. and Goshtasbirad, E., 2014, "**Experimental Investigation of Mixed Convection Heat Transfer in Vertical Tubes by Nanofluids: Effects of Reynolds Number and Fluid Temperature**", *International Journal of Engineering, IJE Transactions B: Applications*, Vol. 27, No. 8, 1251 - 1258.
20. Hadad, Y. and Jafarpur, K., 2013, "**Modeling of Laminar Forced Convection Heat Transfer in Packed Beds with Pebbles of Arbitrary Geometry**", *Journal of Porous Media*, 16 (11), 1049 - 1061.
21. Ziaee, S. and Jafarpur, K., 2013, "**Welding Buckling Prediction of Thin Shells Based On Entropy Generation**", *Sharif Mechanical Engineering Journal*, 20, 57 - 63.
22. Shafiee, H., Abouali, O., Jafarpur, K. and Ahmadi, G., 2013, "**Numerical Study of Heat Transfer Performance of Single-Phase Heat Sinks with Micro Pin-Fin Structures**", *Applied Thermal Engineering*, 58, 68 - 76.
23. Javanmardi, M. J. and Jafarpur, K., 2013, "**A Molecular Dynamics Simulation for Thermal Conductivity Evaluation of Carbon Nanotube-Water Nanofluids**", *Journal of Heat Transfer*, 135, 1-9.
24. Maleki Majd, K., Karparvarfard, S. H., Farahnaky, A. and Jafarpur, K., 2013, "**Thermodynamic of Water Sorption of Grape Seed: Temperature Effect of Sorption Isotherms and Thermodynamic Characteristics**", *Food Biophysics*, 8, 1 - 11.
25. Hadad, Y. and Jafarpur, K. 2012, "**Laminar Foreced Convection Heat Transfer From Isothermal Bodies with Unity Aspect Ratio**", *Heat Transfer Engineering, An International Journal*, Vol. 33, Issue 3, pp. 245- 254.

26. Eslami, M. and Jafarpur, K., 2012, "**Optimal Distribution of Imperfection in Conductive Constructal Designs of Arbitrary Configurations**", *Journal of Applied Physics*, 112. 104905, 1 - 7.
27. Javanmardi, M. J., Jafarpur, K. and Mahzoon, 2012, "**Solution Methodology of Convection Boundary Layer Problems Using Adomian Decomposition Method**", 227 (7), 1554 - 1565.
28. Sepehri, A., Daneshmand, F. and Jafarpur, K., 2012, "**A Modified Particle Swarm Approach for Multi-Objective Optimization of Laminated Composite Structures**", *Structural Engineering and Mechanics*, Vol. 42, No. 3, pp. 335 - 352.
29. Hadad, Y. and Jafarpur, K., 2012, "**Modelling of Laminar Forced Convection in Spherical – Pebble Packed Beds**", *Journal of Mechanical Science and Technology*, 26 (2), 643 – 649.
30. Javanmardi, M. J. and Jafarpur, K., 2012, "**Prediction of Nanofluids Thermal Conductivity: Instantaneous (One Shot) Heat Sources Approach**", *Accepted for publication in World Applied Sciences Journal*.
31. Eslami, M. and Jafarpur, K., 2012, "**Thermal Resistance in Conductive Constructal Designs of Arbitrary Configuration: A New General Approach**", *Energy Conversion and Management*, 57, 117 – 124.
32. Eslami, M. and Jafarpur, K., 2011, "**Laminar Free Convection Heat Transfer From Isothermal Convex Bodies of Arbitrary Shape: A New Dynamic Model**", *Heat Mass Transfer*, DOI 10.1007/s00231-011-0885-6
33. Fallahi, A., Jafarpur, K. and Nami, M.R., 2011, "**Analysis of Welding Conditions Based On Induced Thermal Irreversibilities in Welded Structures: Cases of Welding Sequences and Preheating Treatment**", *Scientia Iranica, Transaction B: Mechanical Engineering*, 18(3), pp. 398-406.
34. Ziaee, S. and Jafarpur, K., 2011, "**Effect of Shell Dimensions on Buckling Behavior and Entropy Generation of Thin Welded Shells**", *World Academy of Science, Engineering and Technology*, 73, pp. 484-491.
35. Hadad, Y. and Jafarpur, K., 2011, "**Laminar Forced Convection Heat Transfer From Isothermal Cylinders with Active Ends and Different Aspect Ratios in Axial Air Flow**", *Heat and Mass Transfer*, 47, pp.59-68.
36. Eslami, M. and Jafarpur, K., 2011, "**Laminar Natural Convection From Isothermal Circular Cylinders with Active Ends**", *Heat Transfer Engineering, An International Journal*, 32(6), pp. 506-513.
37. Aryaei, A., Hashemnia, K. and Jafarpur, K., 2010, "**Experimental and Numerical Study of Ball Size Effect on Restitution**

- Coefficient in Low Velocity Impacts**”, *International Journal of Impact Engineering*, 37, 1037-1044.
38. Feilizadeh, M., Soltanieh, M., Jafarpur, K. and Karimi Estahbanati, M. R., 2010, “**A New Radiation Model for a Single-Slope Solar Still**”, *Desalination*, 262, pp. 166-173.
 39. Ziaee, S., Kadivar, M. H. and Jafarpur, K., 2009, “**Effect of external constraint on buckling behavior of welded thin shells**”, *Iranian Journal of Science and Technology*, Vol. 33, No. B5, pp. 397-413.
 40. Baneshi, M., Jafarpur, K. and Mahzoon, M., 2009, “**Application of the Entropy Generation Minimization Method to Solid Mechanics**”, *Journal of Applied Physics A*, Vol. 97, pp. 777.
 41. Yaghoubi, M., Shaeri, M.R. and Jafarpur, K., 2009, “**Three Dimensional Numerical Laminar Convection Heat Transfer Around Lateral Perforated Fins**”, *International Journal of Computational Thermal Sciences*, in Press, doi:10.1615/computthermalscienc.v1.i3.5.
 42. Eslami, M., Jafarpur, K., and Yovanovich, M.M., 2009, “**Laminar Natural Convection From Isothermal Cones with Active End**”, *Iranian Journal of Science and Technology*, Vol. 33, No. B3, pp. 217-229.
 43. Shaeri, M. R., Yaghoubi, M. and Jafarpur, K., 2009, “**Heat Transfer Analysis of Lateral Perforated Fin Heat Sinks**”, *Applied Energy*, .Vol. 37, Issue 10, pp. 1037-1044.
 44. Ziaee, S., Kadivar, M. H. and Jafarpur, K., 2008, “**A Sequence Scheme to Reduce the Residual Stresses in welding of Circular Elements**”, *Iranian Journal of Science and Technology, Transaction B, Engineering*, Vol. 32, No. B4, pp. 367-383.
 45. Ziaee, S., Kadivar, M. H. and Jafarpur, K., 2007, “**Effect of External Constraint on Buckling Behavior of Welded Thin Shells**”, *Int. J. of Theoretical and Applied Mechanics*, Vol. 2, No. 1.
 46. Nami, M.R., Kadivar, M.H., and Jafarpur, K., 2006, “**Investigation of the 3D Response of Thick Plates under the Multipass Welding Using Anand’s Viscoplastic Model**”, *Modarres Technical and Engineering Journal*, No. 24, 80-86.
 47. Hughes, L., Bohan, K., Good, J. and Jafarpur, K., 2004, “**Calculating Residential Carbon Dioxide Emissions—A New Approach**”, *Energy Policy*, 33/14, 1865-1871.
 48. Nami, M. R., Kadivar, M. H., and Jafarpur, K., 2004, “**Three-Dimensional Thermal Response of Thick Plate Weldments: Effect of Layer-wise and Piece-wise Welding**”, *Modelling and Simulation In Materials Science And Engineering*, 12, 731-743.

49. Nami, M. R., Kadivar, M. H., and Jafarpur, K., 2004, “**3D Thermo-Viscoplastic Modeling of Welds: Effect of Piece-Wise- Welding on Thermo-Mechanical Response of Thick Plate Weldments**”, *Iranian Journal of Science and Technology, Transaction B*, Vol. 28, No. B4, 467-478.
50. Kadivar, M.H., Jafarpur, K. and Baradaran, G.H., 2000, “**Optimizing Welding Sequence with Genetic Algorithm**”, *Computational Mechanics*, Vol. 26, No. 6, pp. 514-519.
51. Kadivar, M.H., Jafarpur, K. and Baradaran, G.H., 2000, “**Non-linear Heat Transfer Analysis of Thin Plates Welding Using Finite Element Method**”, *Journal of Iranian Mechanical Engineering*, Volume 4, pp. 31-39.
52. Mostafavi, M. and Jafarpur, K., 1999, “**Relation of University, Industry and Government: Shiraz University Case Study**”, *Sharif (A Journal Published by Sharif University)*, Tehran, Iran, pp. 41-50.
53. Yovanovich, M.M. and Jafarpur, K., 1993, “**Models of Laminar Natural Convection From Vertical And Horizontal Isothermal Cuboids For All Prandtl Numbers and All Rayleigh Numbers Below 11**”, ASME HTD - Vol. 264, *Fundamentals of Natural Convection*, pp. 111-126.
54. Yovanovich, M.M. and Jafarpur, K., 1993, “**Bonds on laminar natural convection from isothermal disks and finite plates of arbitrary shape for all orientations and prandtl numbers**”, ASME HTD - Vol. 24, *Fundamentals of Natural Convection*, pp. 93-110.
55. Jafarpur, K. and Yovanovich, M.M., 1992, “**Laminar free convective heat transfer from isothermal spheres: a new analytical method**”, *Int. J. Heat Mass Transfer*, Vol. 35, No. 9, pp. 2195-2201.
56. Lee S., Yovanovich, M.M. and Jafarpur, K., 1991, “**Effects of geometry and orientation on laminar natural convection from isothermal bodies**”, *J. Thermophysics and Heat Transfer*, Vol. 5, pp. 208-216.
57. Yaghoubi, M.A. and Jafarpur, K., 1990, “**Global Solar Radiation in Fars Province, Iran**”, *Iranian J. of Science & Technology*, Vol. 14, No. 1, pp. 47-62.
58. Jafarpur, K. and Yaghoubi, M.A., 1989, “**Solar radiation for Shiraz, Iran**”, *Solar and Wind Technology*, Vol. 6, pp. 177-179.

CONFERENCES

1. Zandi, A.R., Jafarpur, K. and Zarei,H., 2017, “**Experimental Study of Convection Heat Transfer in an Enclosure with Internal Heat Source**”,

Accepted for the Presentation at 7th *Iranian Conference on Fluid Dynamics*, September, Kashan, Iran.

2. Shirani Faradonbeh, H., Gholaminezhad, I., Paydar, S., Salehi, Z., Paydar, M.H. and Jafarpur, K., 2017, "**Investigation and Comparing Conductivity and Electrochemical Performance of $(\text{Nd}_{0.9}\text{La}_{0.1})\text{Ni}_{0.75}\text{Cu}_{0.25}\text{O}_4 - \text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ Composite Cathodes for Solid Oxide Fuel Cells Application**", Presented at 21th *International Conference on Solid State Ionics*, 18—23 June, Padua, Italy.
3. Karimshahian Bidgoli, A., Ebadi, M. and Jafarpur, K., 2016, "**An Investigation on a Multi-Stage Solar Desalination Unit with a Temperature Controller**", Presented at *ISME 2017*, 2-4 May, Tarbiat Modares University, Tehran, Iran.
4. Farahmandfar, K., Izadi, H., Goshtasbirad, M.E. and Jafarpur, K., 2014, "**Optimization of Energy Consumption in Floor Heating by Constructal Theory**", Presented at 2nd *International Conference on Oil, Gas, and Petrochemicals in Iran*, December 18, Shahid Beheshti University, Tehran, Iran
5. Bazergar, F. and Jafarpur, K., 2014, "**Numerical Study of the Performance of a Domestic Electrical Heater in Heating the Air inside a Room**", Presented at 4th *National Industrial Ventilation and Hygiene Conference-IHE 2014*, October 18--19, Tehran, Iran.
6. Enjavi Arsanjani, M., Yagoubi, M. and Jafarpur, K., 2014, "**Solar Energy Potential Evaluation of Several Different Climatic Regions in Iran Using Artificial Neural Network**", Presented at 1st *International Conference and Exhibition on Solar Energy-ICESE*, May 19-20, Tehran, Iran.
7. Davani, E., Jafarpur, K. and Karimi Estahbanati, M. R., 2014, "**Analytical Investigation of A Multi-Stage Active Basin-Type Solar Still's Performance**", Presented at 1st *International Conference and Exhibition on Solar Energy-ICESE*, May 19-20, Tehran, Iran.
8. Bazergar, F. and Jafarpur, K., 2014, "**Numerical Study of the Effective Thermal Characteristics Parameters in Design of an Efficient Domestic Electrical Heater**", Presented at 4th *Annual Clean Energy Conference-ACEC2014*, June 25-26, Kerman, Iran.
9. Yazdani, M., Yaghoubi, M. and Jafarpur, K., 2014, "**Performance Analysis of an Integrated Solar Combined Cycle Power Plant with Gas Turbine Inlet Air Cooling System**", Presented at 4th *Annual Clean Energy Conference-ACEC2014*, June 25-26, Kerman, Iran.
10. Farahmandfar, K., Goshtasbirad, M.E. and Jafarpur, K., 2014, "**Optimal Floor Heating Based Upon Constructal Theory in an Incompressible Turbulent Flow**", Presented at 22nd *Annual International Conference on Mechanical Engineering-ISME2014*, April 22-24, Shaid Chamran University, Ahwaz, Iran.
11. Nozari, M.H., Jafarpur, K. and Ziaiee, S., 2014, "**Experimental Investigation of Constructal Welding Paths Effect on Generated Entropy in Arc Welding of**

Thin Plates", Presented at 22nd Annual International Conference on Mechanical Engineering-ISME2014, April 22-24, Shaid Chamran University, Ahwaz, Iran.

12. Nozari, M.H., Jafarpur, K. and Ziaiee, S., 2014, "**Experimental Study of Application of Constructal Theory in Selecting Welding Paths With the Approach of Residual Stresses Reduction in Weldments**", Presented at The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics, X-Mech-2014, February 18-19, Tehran, Iran.
13. Arabi, P. and Jafarpur, K., 2013, "**Criteria for Predicting Transitions in Free Convection Heat Transfer from Isothermal Convex Bodies in Fluids with Any Prandtl Number**", Presented at 15th Conference on Fluid Dynamics, fd2013, December 18 - 20, The University of Hormozgan, Bandar Abbas, Iran.
14. Farahmandfar, K., Jafarpur, K. and Goshtasbirad, M.E., 2013, "**Optimization of Floor Heating Base Upon Constructal Theory in Incompressible Laminar Flows**", Presented at 20th Annual (International) Conference on Mechanical Engineering-ISME2013, May 7-9, K. N. Toosi University, Tehran, Iran.
15. Arabi, P. and Jafarpur, K., 2013, "**Effect of Different Flow Regimes on Natural Convection Heat Transfer from a Vertical Plate**", Presented at 20th Annual (International) Conference on Mechanical Engineering-ISME2013, May 7-9, K. N. Toosi University, Tehran, Iran
16. Hirbody, K. and Jafarpur, K., 2013, "**Conduction Shape Factor for Hollow Prism Bars**", Presented at 20th Annual (International) Conference on Mechanical Engineering-ISME2013, May 7-9, K. N. Toosi University, Tehran, Iran.
17. Nouri, D., Jayhooni, M. H. and Jafarpur, K., 2013, "**Numerical Study of Enhancing Convective Heat Transfer from a Cubical Heat Source in a Minichannel Using Nanofluids**", Presented at 20th Annual (International) Conference on Mechanical Engineering-ISME2013, May 7-9, K. N. Toosi University, Tehran, Iran.
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