

| |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Shuja S.Z. and Habib, M.A., "Fluid flow and heat transfer characteristics in axisymmetric annular diffusers", Computers and Fluids, Vol. 25, No. 2, pp. 133-150, 1996.</p> |
| <p>Shuja S.Z. and Zubair S.M., Thermo-economic optimization of constant cross-sectional area fins", ASME Journal of Heat Transfer, Vol. 119, No. 4, pp. 860-863, 1997.</p> |
| <p>Yilbas B.S. and Shuja S.Z., "Heat transfer analysis of laser heated surfaces - conduction limited case", Applied Surface Science, Vol.108, pp.167-175, 1997.</p> |
| <p>Yilbas B.S., Shuja S.Z. and Sami M., "Thermal analysis of laser heat treated engineering alloys", Surface Engineering, Vol.13, No.2, pp.149-156, 1997.</p> |
| <p>Yilbas B.S., Nickel, J., Coban A., Sami M., Shuja S.Z. and Aleem A., "Laser melting of plasma nitrided Ti-6Al-4V alloy", Wear, Vol. 212, pp. 140-149, 1997.</p> |
| <p>Shuja S.Z. and B.S. Yilbas, "Pulsative heating of surfaces", Int. J. Heat and Mass Transfer, Vol.41, pp.3899-3918, 1998.</p> |
| <p>Shuja S.Z. and Yilbas B.S., "Gas-assisted laser repetitive pulsed heating of a steel surface", Proc Instn Mech Engrs, Part C: J. Mechanical Engineering Science, Vol.212, pp. 741-757, 1998.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Budair M.O., "Modeling of laser heating of solid substance including assisting gas impingement", Numerical Heat Transfer, Part A, Vol.33, pp.315-339, 1998.</p> |
| <p>Yilbas B.S., Shuja S.Z., and Sami M., "Pulsed laser heating - Fourier and electron kinetic theory approaches", Heat and Mass Transfer, Vol.34, pp.299-306, 1998.</p> |
| <p>Yilbas B.S., Shuja S.Z., and Sami M., "Pulsed laser heating of steel surfaces-Fourier and electron kinetic theory approaches", International Communications in Heat and Mass Transfer, Vol.25, No.6, pp. 843-852, 1998.</p> |
| <p>Yilbas B.S., Sami M., and Shuja S.Z., "Laser-induced thermal stresses on steel surface", Optics and Lasers in Engineering, Vol.30, pp.25-37, 1998.</p> |
| <p>Yilbas B.S., Shuja S.Z., Gbadebo A.S., Abu Al-Hamayel I., and Boran K., "Natural convection and entropy generation in a square cavity", Int. J. of Energy Research, Vol.22, pp.1275-1290, 1998.</p> |

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Yilbas B.S. and Shuja S.Z., "Laser short-pulse heating of surfaces", J. Phys. D.: Appl. Phys., Vol.32, pp.1947-1954, 1999.</p> |
| <p>Yilbas B.S. and Shuja S.Z., "Laser heating of silicon: a kinetic theory approach", Numerical Heat Transfer, Part A., Vol.36, pp. 563-584, 1999.</p> |
| <p>Shuja S.Z., Zubair, S. M. and Khan, M. S., "Thermoeconomic design and analysis of constant cross-sectional area fins", Heat and Mass Transfer, Vol. 34, pp.357-364, 1999.</p> |
| <p>Shuja S.Z., Yilbas B.S., and M.O. Budair, "Gas jet impingement on a surface having a limited constant heat flux area: various turbulence models", Numerical Heat Transfer, Part A., Vol.36, pp. 171-200, 1999.</p> |
| <p>Yilbas B.S., Shuja S.Z., and Sami M., "Efficiency analysis of a repetitive pulsed-laser heating" Optics and Lasers in Engineering, Vol. 31, pp. 51-61, 1999.</p> |
| <p>Yilbas B.S., Shuja S.Z., and Budair M.O., "Second law analysis of a swirling flow in a circular duct with restriction", Int. J. of Heat and Mass Transfer, Vol.42, pp. 4027-4041, 1999.</p> |
| <p>Yilbas B.S., Khalid M., and Shuja S.Z., " Laser assisted nitriding of Ti-6Al-4V alloy: Metallurgical and electrochemical properties", Chemical Engineering and Technology, Vol.10, pp.871-876, 1999.</p> |
| <p>Shuja S.Z., Yilbas B.S., Budair M.O., and Hussaini I.S., "Entropy analysis of a flow past a heat-generated bluff body", Int. J. Energy Research, Vol. 23, pp. 1133-1142, 1999.</p> |
| <p>Shuja S.Z. and Yilbas B.S., "The influence of gas jet velocity in laser heating-a moving workpiece case", Proc Instn Mech Engrs, Part C: J. Mechanical Engineering Science, Vol. 214, pp. 1059-1078, 2000.</p> |
| <p>Shuja S.Z. and Yilbas B.S., "3-Dimensional conjugate laser heating of a moving slab", Applied Surface Science, Vol. 167, pp. 134-148, 2000.</p> |
| <p>Yilbas B.S. and Shuja S.Z., "Electron kinetic theory approach for sub-nanosecond laser pulse heating", Proc Instn Mech Engrs, Part C: J. Mechanical Engineering Science, Vol. 214, pp. 1273-1284, 2000.</p> |
| <p>Yilbas B.S. and Shuja S.Z., "One equation, two-equation and kinetic theory: laser pulse heating, Jpn. J. Appl. Physics, Vol. 39, pp. 4018-4027, 2000.</p> |

| |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Yilbas B.S. and Shuja S.Z., "Laser treatment and PVD TiN coating of Ti-6Al-4V alloy", Surface and Coatings Technology, Vol. 130, pp. 152-157, 2000.</p> |
| <p>Yilbas B.S. and Shuja S.Z., "Investigation of nitrogen diffusion during laser heating of titanium", Surface Engineering, Vol. 16, pp. 519-523, 2000.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Iqbal M.O., "Mixed convection in a square cavity due to heat generating rectangular body - Effect of cavity exit port locations", Int. J. of Numerical Methods for Heat and Fluid Flow, Vol. 10, pp. 824-841, 2000.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Iqbal M.O., "Heat transfer characteristics of flow past a rectangular protruding body", Numerical Heat Transfer, Part A., Vol. 37, pp. 307-321, 2000.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Budair M.O., "Natural convection in a square cavity with a heat generating body: Entropy consideration", Heat and Mass Transfer, Vol. 36, pp. 343-350, 2000.</p> |
| <p>Yilbas B.S., Shuja S.Z., and Budair M.O., "Nano-second pulse heating and assisting gas jet considerations", Int. J. Machine Tools and Manufacture, Vol. 40, pp. 1023-1038, 2000.</p> |
| <p>Shuja S.Z. and Yilbas B.S., " A laminar swirling jet impingement on to an adiabatic wall: Effect of inlet velocity profiles", Int. J. of Numerical Methods for Heat and Fluid Flow, Vol. 11, pp. 237-254, 2001.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Budair M.O., "Local entropy generation in an impinging jet: minimum entropy concept evaluating various turbulence models", Computer Methods in Applied Mechanics and Engineering, Vol. 190, No. 28, pp. 3623-3644, 2001.</p> |
| <p>Shuja S.Z., Iqbal M.O., and Yilbas B.S., "Natural convection in a square cavity due to a protruding body - aspect ratio consideration", Heat and Mass Transfer, Vol. 37, pp. 361-369, 2001.</p> |
| <p>Arif A.F.M., Shuja S.Z., and Yilbas B.S., "Gas assisted laser single-pulse heating: study of thermal stresses", Proc Instn Mech Engrs, Part C: J. Mechanical Engineering Science, Vol. 215, pp. 291-306, 2001.</p> |
| <p>Yilbas B.S., Shuja S.Z., and Arif A.F.M., "Elastic displacement of the surface due to a laser heating pulse", Proc Instn Mech Engrs, Part C: J. Mechanical Engineering Science, Vol. 215, pp. 1271-1282, 2001.</p> |
| <p>Yilbas B.S., Arif A.F.M., and Shuja S.Z., "Simulation of elastic displacement of surface during laser short pulse heating of gold", Optical and Quantum Electronics, Vol. 33, pp. 1241-1258, 2001.</p> |

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Shuja S. Z., Yilbas B.S., Iqbal M.O., and Budair M.O., "Flow through a protruding bluff body - heat and irreversibility analysis", <i>Exergy - an International Journal</i>, Vol. 1(3), pp. 209-215, 2001.</p> |
| <p>Shuja S.Z., "Laser Heating of a Moving Slab in the presence of an Impinging Gas Jet: Influence of Slab Velocity", <i>Numerical Heat Transfer, Part A</i>. Vol. 42, pp. 757-775, 2002.</p> |
| <p>Shuja S.Z., "Optimal Fin Geometry Based on Exergoeconomic Analysis for a Pin-Fin Array with Application to Electronics Cooling", <i>Exergy - an International Journal</i>, Vol. 2, pp. 248-258, 2002.</p> |
| <p>Shuja S.Z. and Yilbas B.S., "Thermal Stresses owing to Convective Heating at surface" <i>Surface Engineering</i>, Vol. 18, pp. 202-207, 2002.</p> |
| <p>Shuja S.Z., Arif A.F., and Yilbas B.S., "Laser repetitive pulse heating of steel surface: A material response to thermal loading", <i>ASME J. of Manufacturing Science and Engineering</i>, Vol. 124, pp. 595-604, 2002.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Budair M.O., "Laser pulse heating of steel surfaces including impinging gas effect and variable properties", <i>Int. J. of Numerical Methods for Heat and Fluid Flow</i>, Vol. 12(2), pp. 195-219, 2002.</p> |
| <p>Shuja S.Z., Yilbas B.S. and M.O. Budair, "Investigation into a confined laminar swirling jet and entropy production", <i>Int. J. of Numerical Methods for Heat and Fluid Flow</i>, Vol. 12, No. 7, pp.870-887, 2002.</p> |
| <p>Shuja, S.Z., Yilbas B.S. and M.O. Budair, "Vortex shedding over a rectangular cylinder with ground effect: flow and heat transfer characteristics", <i>Int. J. of Numerical Methods for Heat and Fluid Flow</i>, Vol. 12, pp. 916-939, 2002.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Arif A.F.M., "Investigation into thermoelastic displacement of surfaces subjected to gas assisted laser repetitive pulse heating", <i>Surface Engineering</i>, Vol. 18, No. 1, pp.37-45, 2002.</p> |
| <p>Yilbas B.S. Shuja S.Z. and Budair M.O., "Stagnation point flow over a heated plate: consideration of gas jet velocity profiles", <i>Arabian Journal of Science and Engineering</i>, Vol. 27(2C) pp. 91-116, 2002.</p> |
| <p>Yilbas B.S., Shuja S.Z. and M.O. Budair, "Jet impingement onto a cavity", <i>Int. J. of Numerical Methods for Heat and Fluid Flow</i>, Vol. 12, pp. 817-838, 2002.</p> |
| <p>Yilbas B.S., Shuja S.Z., and Iqbal M.O., "Energy and entropy analysis in a square cavity with protruding body: effects of protruding body aspect ratio", <i>Int. J. of Energy Research</i>, Vol. 26, pp. 851-866, 2002.</p> |

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Yilbas B.S., Naqavi I.Z., and Shuja S.Z., "Modeling and experimental study into the laser-assisted nitriding of Ti-6Al-4V alloy", ASME J. of Manufacturing Science and Engineering, Vol. 124, pp. 863-874, 2002.</p> |
| <p>Yilbas B.S., Hyder S.J. and Shuja S.Z., "Flexural wave generation and stress analysis during laser evaporative heating of steel", Proc Instn Mech Engrs, Part C: J. Mechanical Engineering Science, Vol. 216, pp. 1-12, 2002.</p> |
| <p>Zubair, S.M., El-Nakla, M. and Shuja, S.Z., "Thermoeconomic design and analysis of a sensible heat thermal energy storage system with Joulean heating of the storage element", Exergy - an International Journal, Vol. 2, pp. 237-247, 2002.</p> |
| <p>Yilbas B.S., Kalyon M., and Shuja S.Z., "Parametric variation analysis on time corresponding to initiation and ending of evaporation during laser heating", Int. Communications in Heat and Mass Transfer, Vol. 29(2), pp. 243-254, 2002.</p> |
| <p>Yilbas B.S., Arif A.F.M., Shuja S.Z., Gondal, M.A. and Shirokof J., "Investigation into laser shock processing", ASM Journal of Materials Engineering and Performance, Vol. 13(1), pp.47-54, 2004.</p> |
| <p>Yilbas B.S., Faisal M., Shuja S.Z., and Arif A.F.M., "Laser pulse heating of steel surface and flexural wave analysis", Optics and Lasers in Engineering, Vol. 37, pp. 63-83, 2002.</p> |
| <p>Yilbas B.S. and Shuja S.Z., "Laser non-conduction limited heating and prediction of surface recession velocity in relation to drilling", Proc Instn Mech Engrs, Part C: J. Mechanical Engineering Science, Vol. 217, pp. 1067-1076, 2003.</p> |
| <p>Shuja S.Z., Yilbas B. S. and Rashid M., "Confined swirling jet impingement onto an adiabatic wall", Int. J. of Heat and Mass Transfer, Vol.46, pp. 2947-2955, 2003.</p> |
| <p>Yilbas B.S., Shuja S.Z. and M.O. Budair, "Jet impingement onto a conical cavity with elevated wall temperature", Int. J. of Numerical Methods for Heat and Fluid Flow, accepted to be published, 2003.</p> |
| <p>Yilbas B.S. Shuja S.Z. and Budair M.O., "Jet impingement onto a hole with constant wall temperature", Numerical Heat Transfer, Part A, Vol. 43(8) pp. 843-865, 2003.</p> |
| <p>Yilbas B.S., Shuja S.Z. and M.S.J. Hashmi, "A numerical solution for laser heating of titanium and nitrogen diffusion in solid", J. Materials Processing Technology, Vol. 136, pp. 12-23, 2003.</p> |
| <p>Hyder J., Yilbas B.S. and Shuja S.Z., "Laser induced flexural wave analysis: an aluminum element in steel substrate", J. Materials Processing Technology, Vol. 136, pp. 24-34, 2003.</p> |

| |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hyder, S.J., Yilbas B.S., and Shuja S.Z. , "Flexural motion in laser evaporative heated cantilever workpiece: Three-dimensional analysis", Optical and Quantum Electronics, Vol. 35, pp.111-128, 2003. |
| Arshed, G.M., Shuja S.Z. , Yilbas B.S. and Budair M.O., "Numerical investigation of a transient free jet resembling a laser-produced vapor jet", Int. J. of Heat and Mass Transfer, Vol.47, pp. 1037-1052, 2004. |
| Yilbas B.S., Shuja S.Z. , A.F.M. Arif and Gondal E.,"Laser shock processing of steel", J. Materials Processing Technology, Vol. 135, pp. 6-17, 2003. |
| Shuja S. Z. and Yilbas B.S., "A turbulent submerged swirling jet expansion in still air and entropy generation", International Journal of Exergy, Vol. 1, No. 3, pp. 399-409, 2004. |
| Yilbas B.S., Shuja S.Z. and M.O. Budair,"Jet impingement onto a conical cavity with elevated wall temperature", Int. J. of Numerical Methods for Heat and Fluid Flow, in print, 2004. |
| Yilbas B.S. Shuja S.Z. and Budair M.O., "Jet impingement onto a conical hole in relation to laser machining", J. of Material Processing Technology, accepted to be published, 2004. |
| Yilbas B.S., Gondal, M.A., Arif A.F.M. and Shuja S.Z. , "Laser shock processing of Ti-6Al-4V alloy", Proc. Inst. Mech. Engr, Part B. Journal of Engineering Manufacture, accepted to be published, 2004. |
| Shuja S.Z. , Yilbas B.S. and M.O. Budair,"Jet impingement onto a limited area heated plate: conical nozzle considerations", Journal of Enhanced Heat Transfer, Vol. 12, pp. 301-313, 2005. |
| Bin-Mansoor S., Yilbas B.S. and Shuja S.Z. ,"Laser heating and surface evaporation", Int. communication in Heat and Mass Transfer, Vol. 32, pp 822-830, 2005. |
| Arshed G.M., Shuja S.Z. , Yilbas B.S. and Budair M.O., "Transient helium jet expansion into air in relation to laser drilling", ImechE Proceedings Part C: Journal of Mechanical Engineering Science, Vol. 219, pp. 667-685, 2005. |
| Shuja S.Z. , Yilbas B.S. and Budair M.O., "Flow impingement onto a flat plate with limited heated area in relation to laser gas assisted processing: influence of nozzle geometry on heat transfer rates", International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 15(4) pp. 363-378, 2005. |
| Shuja S.Z. , Arshed G.M., Yilbas B.S. and Budair M.O., "", accepted for publication, International Journal of Numerical Methods for Heat and Fluid Flow, 2005. |

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Shuja S.Z., Yilbas B.S. and Budair M.O., "Influence of conical and annular nozzle geometric configurations on flow and heat transfer characteristics due to flow impingement onto a flat plate", Numerical Heat Transfer, Part A, Vol. 48, pp 917-939, 2005.</p> |
| <p>Shuja S.Z., Yilbas B.S. and Budair M.O., "Jet impingement onto a cylindrical cavity: consideration of annular nozzle cone angles, and cavity diameter", International Journal of Computational Fluid Dynamics, Vol. 19 No. 7, pp 483-492, 2005.</p> |
| <p>Yilbas B.S. and Shuja S.Z., "Laser short pulse heating-variable properties case", J. Physics A, Vol. 364, pp. 87-102, 2006</p> |
| <p>Shuja S.Z., Yilbas B.S. and M.S. Khan, "Entropy generation in laminar jet: effect of nozzle exiting velocity profiles", Heat and Mass Transfer, vol 42, n 9, p 771-777, 2006.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Budair M., " Jet impingement on cylindrical cavity: conical nozzle consideration", J. Fluids and Structure, accepted to be published, 2006.</p> |
| <p>Shuja S.Z., Yilbas B.S., and Shazli S.Z., "Laser repetitive pulse heating influence of pulse duty", Heat and Mass Transfer, accepted to be published, 2006.</p> |
| <p>Shuja S.Z., Zubair S.M., and Shazli S.Z., "Optimization of a finned heat sink array based on thermoeconomic analysis", Int. J. of Energy Research, accepted to be published, 2006.</p> |
| <p>Shuja S.Z., Yilbas B.S. and M.S. Khan, "Entropy Generation in Jet Emanating From Conical Nozzle and Impinging onto a Flat Plate: Influence of Nozzle Cone Angle", International Journal of Numerical Methods for Heat and Fluid Flow, accepted to be published, 2007</p> |
| <p>Bin-Mansoor S., Yilbas B.S. and Shuja S.Z., "Laser pulse heating: modeling of cavity formation", Proc. Inst. Mech. Engrs., Part C: J. Mechanical engineering Science, accepted to be published, 2006</p> |
| <p>Mansoor S. B., Yilbas B.S. and Shuja S.Z., "Laser Evaporative Heating: Influence of Laser Pulse Intensity on the Cavity Formation", Heat Transfer Engineering, Accepted to be published, 2006.</p> |
| <p>Shuja, S.Z., Yilbas B.S., and Jamal A. , "Entropy Generation in Flow Field Subjected to a Porous Block in a Vertical Channel", Int. J. on Transport in Porous Media, accepted to be published, 2007.</p> |

| |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Al-Gahtani, H. J. and Shuja S.Z. , "A new iterative boundary element procedure for zoned homogeneous potential problems", 3 rd Regional Conference on Computer Applications in Civil Engineering, Kuala Lumpur, Malaysia, pp. 5-1:5-10, Aug. 1994. |
| Shuja S.Z. , Yilbas B.S. and Budair M.O., "Stagnation flow over constant heat flux surface: various turbulence models", Proceedings of CSME FORUM 1998, Volume 1, Thermal and Fluids Engineering, pp. 210-217, Toronto, Canada, May 1998. |
| Shuja S.Z. and Yilbas B.S., "3-Dimensional gas-assisted heating of moving slab", 33 rd National Heat Transfer Conference, pp. 1-7, Albuquerque, New Mexico, Aug. 1999. |
| Yilbas B.S., Shuja S.Z. , and Budair M.O., "Influence of gas jet velocity profiles on turbulence characteristics in stagnation point flow", Proceedings, ISTP-12 Symposium, pp. 103-108, Istanbul, Turkey, July 2000. |
| Yilbas B.S., Shuja S.Z. , and Budair M.O., "Jet impingement onto a hole with constant wall temperature", Proceedings, ISTP-13 Symposium, pp. 213-217, Victoria, Canada, July 2002. |
| Yilbas B.S., Shuja S.Z. , and Budair M.O., "Jet impingement onto a conical cavity", Proceedings Advanced Materials Processing Technology, AMPT-03 Conference, Dublin, Ireland, July 2003. |
| Shuja S.Z. , Yilbas B.S. and Budair M.O., "Local entropy generation in an impinging jet: examination of various turbulence models", Proceedings of the Workshop on Energy Conservation in Industrial Applications, WEC'2000, pp. 123-143, KFUPM, Saudi Arabia, Feb. 2000. |