

Curriculum Vitae

Research Interests

1- - energy saving in buildings

2- - thermal comfort

3- - topics in heat transfer

4- - bioheat transfer

5- - biofluid mechanics

6- - conventional and modern HVAC systems

7- - heat transfer in manufacturing

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Education

1 BSc/BA : Mechanical Engineering, Sharif University, Iran, 1980

2 MS : Mechanical Engineering, thermo-fluid, Kyoto University, Japan, 1986

3 PhD : Mechanical Engineering, thermo-fluid, Kyoto University, Japan, 1990

Languages Skills

Persian, English, Japanese, Arabic

Teaching interests

Journal Papers

1. M. Maerefat, S.M.H. Karimian, M. Malekzadeh Dirin, "An engineering in viscid-boundary layer method for calculation of aerodynamic heating in the leeward region", Iranian Journal of Science & Technology, Transaction B: Engineering 31, (2007), pp. 13-30.
2. S. Rahgozar, M. Maerefat, M. Mokhtari-Dizaji, "Presentation of non inviscid invasive method for estimation arterial stiffness using modeling blood flow and arterial wall based on determination of elastic modulus of arterial wall", Journal of BIOMECHANICS 39, (2006), pp. S609-S610.
3. H. MOSLEMI NAEINI, M. Maerefat, M. SOLTANPOUR, "Finite element simulation of hot forming process by using flow stress prediction model", Iranian Journal of Science and Technology, Transactions B: Engineering, 29, (2005), pp. 231-240.
4. Abdulsalam Ebrahimpour, Mehdi Maerefat, "A method for generation of typical metrological year", Energy Conversion and Management, 51, (2010), pp. 410-417.
5. Alireza Zolfagari, Mehdi Maerefat, "A new simplified model for evaluating non-uniform thermal sensation caused by wearing clothing", Building and Environment, 45, (2010), pp.776-783.
6. Mostafa Khosravi El-Hossaini, Mehdi Maerefat, Kiumars Mazaheri, "Numerical Modeling of Porous Radiant Burners Using Full and Reduced Kinetic Mechanisms", Iran Journal of Chemical Engineering, Vol. 27(1),pp. 53-63.
7. Mostafa Khosravi El-Hossaini, Mehdi Maerefat, Kiumars Mazaheri, "Numerical Investigation on the effect of Pressure Drop on Thermal Behavior of Porous Burners", Journal of Heat Transfer, Transactions of the ASME, Vol. 130,(2008), pp. 032601-1-032601-5.
8. G. Heidarinejad, R. Shirmohammadi, M. Maerefat, "Heat wave phenomena in solids subjected to time dependent surface heat flux", Heat and Mass Transfer, Vol.44, (2008),pp. 381-392 ,
9. M. Maerefat, S. Rahgozar, M. Mokhtari-Dizaji, "Estimation of Elasticity by Modeling Blood Flow Using Clinical Ultrasound Data", Pakistan Journal of Biological Science, Vol. 10 (15), (2007), pp. 2569-2574.
10. Alireza Zolfagari, Mehdi Maerefat, "A new simplified thermoregulatory bioheat model for evaluating thermal response of the human body to transient environments", Building and Environment, 45, (2010), DOI: 10.1016/j.buildenv.2010.03.002
11. Mehdi Maerefat, Amin Haghighi, " Passive Cooling Of Buildings By Using Integrated Earth To Air Heat Exchanger And Solar Chimney", Renewable Energy, DOI: 10.1016/j.renene.2010.03.003