

Curriculum Vitae



Dr. B. Premachandran

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Education:

Bachelor of Engineering (Mechanical) – Madurai Kamaraj University, Madurai, India
Master of Engineering (Mechanical) – National Institute of Technology, Trichy, India
Doctor of Philosophy (Mechanical) – Indian Institute of Technology Madras,
Chennai, India

Professional Positions:

Sep.2008 – Present - Assistant Professor, IIT Delhi, New Delhi, India.
Apr.2007-Aug. 2008 - Aerothermics tools Engineer, Airbus Engineering Centre India
Pvt.Ltd., Bangalore, India.
Apr 2005 –Mar.2007 - Design Engineer –GE-BEL Pvt. Ltd (GE Healthcare),
Bangalore, India.

Research Interests:

Multimode Heat Transfer
Heat Transfer in Porous Media
Computational Fluid Dynamics
Metal Processing

Professional Affiliation:

Life Member, Indian Society of Heat and Mass Transfer.

Publications:

Refereed Journal Articles:

1. A.S.Krishnan, B.Premachandran, C.Balaji and S.P.Vekateshan, 2004 “Combined Experimental and Numerical Approaches to Multimode Heat Transfer Between Vertical Parallel Plates”, *Experimental Thermal and Fluid Science*, 29, pp 75-86.
2. B.Premachandran, C.Balaji, 2004, “Mixed Convection Heat Transfer from a Horizontal Channel with Protruding Heat Sources”, *Heat and Mass Transfer*, 41, pp 510-518.
3. B.Premachandran and C.Balaji, 2004, “A Correlation for Mixed Convection Heat Transfer from Converging, Parallel and Diverging channels with Uniform Volumetric Heat Generating Plates”, *International Communication in Heat and Mass Transfer*, 33, pp 350-356.
4. B.Premachandran and C. Balaji, 2006, “Conjugate Mixed Convection with Surface Radiation from a Horizontal Channel with Protruding Heat Sources”, *International Journal of Heat and Mass Transfer*, 49, pp 3568-3582.
5. V. Raghavan, B.Premachandran, 2008, “Microflows in Channel with 90° Bend- Effect of Bend Radius”, *ASME Journal of Fluid Engineering*, 130.

Refereed Conference Proceedings:

1. S.Muthushanmugam, B.Premachandran and R.Uday Kumar, 2000,” Computer simulation of LHR Diesel engine”, XII ISME National Conference, 93-101, Chennai.
2. B.Premachandran and C.Balaji, 2004,”Conjugate Heat Transfer from Vertical Channels with Uniform Heat Generating Finite Thick Plates”, 48-53, XVII National and VI ISHMT/ASME Heat and Mass Transfer Conference, Kalpakkam.