

Gholamreza Imani

Current Position: Assistant Professor of Mechanical Engineering, Persian Gulf University, Bushehr, 7516913798, Iran.

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Education

- Ph.D., Mechanical Engineering, Tarbiat Modares University
- M.Sc., Mechanical Engineering, Tarbiat Modares University
- B.Sc., Mechanical Engineering, Persian Gulf University

Work Experience

- Assistant Professor of Mechanical Engineering at Persian Gulf University, 2013-Present
- Occupational Trainee at University of Queensland, Brisbane, Australia, 2011-2012.

Completed Industrial Projects

- Collaborated in an industrial project entitled " Design and construction of a pilot Plant of Seawater Desalination Using the Humidification-Dehumidification Method" ordered by Iranian Science and Technology Vice-presidency, 2015.

Honors and Achievements

- Distinguished Lecturer at the Mechanical Engineering Department, PGU, 2016.
- 1st Rank Amongst the Candidates (more than 200 candidates) of the Ph.D. Entrance of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran.
- 3rd Rank Amongst Mechanical Engineering M.Sc. Students Class of 2007, Tarbiat Modares University, Tehran, Iran.
- 1st Rank Amongst Mechanical Engineering B.Sc. Students Class of 2001, Persian Gulf University.

Research Interests

- Numerical Simulation of Heat Transfer Through Porous Media
- Lattice Boltzmann Simulation of Heat and Fluid Flow Problems
- Inverse Heat Transfer
- Thermal Comfort
- Computational Fluid Dynamics (CFD)

Teaching Experiences

Undergraduate Courses:

- Engineering Thermodynamics I&II
- Internal Combustion Engines
- An Introduction to Computational Fluid Dynamics
- Heat Transfer I&II

- Power Plant Engineering
- Gas Dynamics
- Thermodynamics Lab

Graduate Courses:

- Convection Heat Transfer

Membership of the Editorial Board and Reviewer of Journals*Editorial Board:*

- Serving on the Board of the Special Editors of Modares Mechanical Engineering Scientific Research Monthly Journal, 2013-present

Journal Reviewer:

- Journal of Porous Media
- Transport in Porous Media
- International Journal of Heat and Mass Transfer
- Computers & Mathematics with Applications
- Scientific World Journal
- Modares Mechanical Engineering Scientific Research Monthly Journal

Professional Membership

- American Society of Thermal and Fluids Engineers 2015-present

Journal Papers

1. **G. R. Imani**, Three-dimensional lattice Boltzmann simulation of the finned natural convection problem with evaluation of the different forcing and conjugate heat transfer schemes, *Computers & Mathematics with Applications*, 74 (2017) 1362-1378.
2. **G. R. Imani**, K. Hooman, Lattice Boltzmann pore scale simulation of natural convection in a differentially heated enclosure filled with a detached or attached bidisperse porous medium, *Transport in Porous Media*, 116 (2017) 91-113.
3. M. M. Shamsi, M. Sefid, **G. R. Imani**, Combination of ghost fluid-lattice Boltzmann and refilling methods for simulation of the moving curved boundaries with heat transfer, *Modares Mechanical Engineering Scientific Research Monthly Journal*, 17 (2017) 274-263.
4. M. M. Shamsi, M. Sefid, **G. R. Imani**, Developing a ghost fluid lattice Boltzmann method for simulation of thermal Dirichlet and Neumann conditions at curved boundaries, *Numerical Heat Transfer Part B: Fundamentals* 70 (2016) 251-266.
5. M. M. Shamsi, M. Sefid, **G. R. Imani**, New formulation for the simulation of the conjugate heat transfer at the curved interfaces based on the ghost fluid lattice Boltzmann method, *Numerical Heat Transfer Part B: Fundamentals* 70 (2016) 559-576.
6. **G. R. Imani**, M. Maerefat, K. Hooman, Pore-scale numerical experiment on the effect of the pertinent parameters on heat Flux splitting at the boundary of a porous medium, *Transport in Porous Media*, 98 (2013) 631-649.
7. **G. R. Imani**, M. Maerefat, K. Hooman, Estimation of heat flux bifurcation at the heated boundary of a porous medium using a pore-scale numerical simulation, *International Journal of Thermal Sciences* 54 (2012) 109-118.

8. **G. R. Imani**, M. Maerefat, K. Hooman, Lattice Boltzmann simulation of conjugate heat transfer from multiple heated obstacles mounted in a walled parallel plate channel, *Numerical Heat Transfer Part A: Applications* 62 (2012) 798-821.
9. **G. R. Imani**, M. Maerefat, K. Hooman, M. Seddiq, Lattice Boltzmann method for simulating conjugate heat transfer from an obstacle mounted in a parallel- plate channel with the use of three different heat input methods, *Heat Transfer Research* 43 (2012) 545-572.
10. **G. R. Imani**, M. Maerefat, F. Kowsary, Thermal design of a residential room to achieve thermal comfort, using an inverse method, *Sharif journal of Science & Technology*, 2010.