


Hossein Rahideh, Assistant Professor in Chemical Engineering	
School of Engineering- Chemical engineering Dep. Persian Gulf University Bushehr, Iran	
Tel-Fax: +98-771-4540376 Personal Homepage: Email: <a href="mailto:rahideh@pgu.ac.ir">rahideh@pgu.ac.ir</a>	

<b>Professional Background</b>		
Lecturer	1994 to 2016	Persian Gulf University (PGU)
Assistant professor	2016 to now	Persian Gulf University (PGU)

<b>Educational Background</b>			
MSc	Chemical Engineering	1991-1994	Tarbiat Modares University, Tehran
BSc	Chemical Engineering	1986-1991	Shiraz University, Shiraz, Iran
PhD	Chemical Engineering	2012-2016	Persian Gulf University

<b>Research Interests</b>	
<ul style="list-style-type: none"> <li>• Heat Transfer and Fluid Mechanics</li> <li>• Computational Heat Transfer (Finite Difference, Finite Element and Differential quadrature Methods)</li> <li>• Modeling and Simulation</li> </ul>	

## Course Taught

### Under Graduate

- Heat Transfer & Heat Transfer Lab.
- Applied Heat Transfer
- Fluid Mechanics & Fluid Mechanics Lab.
- Reactor Design & Synthetic
- Engineering Design & Economics
- Computer Programming
- Industrial Drawing

## Projects and Activities

- Research project in progress:

## Graduate Students Supervised

## Publications

### Journal Papers

1- Sadrameli M, Rahideh H. Simulation and Design of Air-preheater for Energy Saving in Furnaces and Boilers. Iranian Journal of Energy 1994;Vol 2:No.3.

2-Mofarahi M, Rahideh H, Karimzadeh R. Application of GM-isotherm model to study adsorption on activated carbon. Proceeding of Thermodynamics 2005;26:Sesimbra, Portugal.

3-Malekzadeh P, Rahideh H, Karami G. A differential quadrature element method for nonlinear transient heat transfer analysis of extended surfaces. Numerical Heat Transfer, Part A 2006;49:1-13.

- 4-Malekzadeh P, Rahideh H, Karami G. Optimization of convective-radiative fins by using differential quadrature element method. *Energy Conversion and Management* 2006;47:1505-1514.
- 5-Malekzadeh P, Rahideh H. IDQ two-dimensional nonlinear transient heat transfer analysis of variable section annular fins. *Energy Conversion and Management* 2007;48:269-276.
- 6-Malekzadeh P, Rahideh H, Setoodeh AR. Optimization of non-symmetric convective-radiative annular fins by differential quadrature method. *Energy Conversion and Management* 2007;48:1671-1677.
- 7-Malekzadeh P, Rahideh H. Transient three-dimensional heat transfer analysis of functionally graded irregular thick plates using a mixed FE-DQ-FD method. *Book Chapter in Nova Science Publishers*; 2008.
- 8-Malekzadeh P, Rahideh H. Two-dimensional nonlinear transient heat transfer analysis of variable section pin fins. *Energy Conversion and Management*. 2009;50:916-922.
- 9- Rahideh H . Malekzadeh P , Golbahar Haghighi M.R. Non-Fourier heat conduction analysis with temperature-dependent thermal conductivity, *International Scholarly Research Network, ISRN Mechanical Engineering, Volume 2011, Article ID 321605, 10 pages.*
- 10- Golbahar Haghighi M.R, Malekzadeh P, Rahideh H. Three Dimensional Transient Optimal Boundary Heating of Functionally Graded Plates, *Numerical Heat Transfer, Part B*, 2011; 59: 1–20.
- 11- Vaghefi M. Rahideh H. Description of the G-A Infiltration Model Using Chu and Chow Viewpoints, *J. Appl. Sci. Environ. Manage.* 2011;15 (1):31 – 36.
- 12- Rahideh H. Malekzadeh P, Golbahar Haghighi M.R. Heat conduction analysis of multi-layered FGMs considering the finite heat wave speed. *Energy Conversion and Management*. 2012;55:14-19.
- 13-Rahideh H. Malekzadeh P, Golbahar Haghighi M.R, Vaghefi M. Two-dimensional inverse transient heat conduction analysis of laminated functionally graded circular plates. *Numerical Heat Transfer, Part A* 2012;62:992-1014.
- 14-Rahideh H. Malekzadeh P, Golbahar Haghighi M.R, Vaghefi M. Inverse transient heat conduction problems of a multilayered functionally graded cylinder. *Numerical Heat Transfer, Part A* 2012;61:717-733.
- 15- Vaghefi M. Rahideh H. Distributed Approximating Functional Approach to Burgers' Equation using Element Differential Quadrature Method, *J. Appl. Sci. Environ. Manage.* 2012;16 (1):121 –127.
- 16-Khaksar Manshad A, K. Manshad M, Rahideh H, Vaghefi M. An Experimental Calculation of Asphaltene Critical Properties in Crude Oil Reservoir Systems, *Petroleum Science and Technology*: 2013;31:1797-1811.
- 17- Rahideh H. Mofarahi M, Malekzadeh P, Golbahar Haghighi M.R. Application of inverse

method to estimation of gas adsorption isotherms, *Transp Porous Med*: 2015;110:613-626.

18- Rahideh H. Mofarahi M, Malekzadeh P. An inverse method to estimate adsorption kinetics of light hydrocarbons on activated carbon, *Computers and Chemical Engineering*: 2016;93:197-211.

### **Conference Papers**

1-Sadrameli M, Rahideh H. Computer-Based Simulation and Design of Rotary Regenerators. The 1<sup>st</sup> Iranian Congress on Chemical Engineering, November 1994;1:25.

2-Mofarahi M, Rahideh H. Equilibrium Isotherms of Propane and Propylene over Activated carbon. The 10<sup>th</sup> Iranian National Chemical Engineering 2005;1:226.