

RAHMAT SOTUDEH-GHAREBAGH

School of Chemical Engineering
University of Tehran
P.O. Box 11155-4563, Tehran, Iran
Tel: (+98-21) 6696-7797 / Fax: (+98-21) 6646-1024
e-mail: sotudeh@ut.ac.ir
<http://eng.ut.ac.ir/che/sotudeh>
<http://works.bepress.com/sotudeh>



EDUCATION

- 1994 – 1999 **Ph.D.** in `Chemical Engineering
Ecole Polytechnique de Montreal, Montreal, Canada
Thesis: *Natural Gas Combustion in a Turbulent Fluidized Bed*
- 1992 – 1994 **M.Sc.** in Chemical Engineering,
Ecole Polytechnique de Montreal, Montreal, Canada,
- 1983 – 1987 **B.Eng.** in Chemical Engineering, Sharif University of Technology, Tehran, Iran.

EXPERIENCE

- 2008- Deputy to the Vice-President for Research and Technology, University of Tehran, Tehran, Iran.
- 2008- Dean of UT Applied Research Office (UT-ARO), University of Tehran, Tehran, Iran.
- 2008- Professor of Chem. Eng., University of Tehran, Tehran, Iran.
- 2006-2007 Associate Professor of Chem. Eng., University of Qatar, Doha, Qatar.
- 2004- 2008 Associate Professor of Chem. Eng., University of Tehran, Iran.
- 1999- 2004 Assistant Professor of Chem. Eng., University of Tehran, Iran.
- 2003- 2005 Director of Technical Training Office (TTO), Chemical Engineering Department, University of Tehran, Tehran, Iran.
- 2002- 2008 Head, Process Design and Simulation Research Centre, Faculty of Engineering, University of Tehran, Iran.
- 2002- 2004 Research, Development and Training manager, Glucosan., Iran.
- 2001- 2003 Head of Graduate Studies, Chem. Eng. Department, University of Tehran, Tehran, Iran.
- 2001- 2002 Consultant, IRALCO, Iran.
- 1999- Adjunct Professor of BioSystem Engineering, University of Tehran, Karaj campus, Iran
- 1999- 2006 Director of the Pharmaceutical Engineering Program, Department of Chemical Engineering, University of Tehran, Tehran, Iran.
- 1999- 2003 Head of IT department, Sharif Tech. Development Institute. Tehran, Iran.
- 1987- 1992 Research Assistant, JDI, Sharif University of Technology, Tehran, Iran.

WORKSHOPS

- Process Simulation using HYSYS/ ASPEN PLUS / SPD
- Steady State Process Simulation
- Dynamic Process Simulation
- Operator Training Simulators (OTS)
- PC-Based softwares for process engineers
- IT for Process Engineers

(Jointly conducted with Dr. Mostoufi for National Petrochemical Company since May 2002)

COURSES

- Computer Aided Process Simulation (undergraduate)
- Numerical Methods (Undergraduate)
- Chemical Reactor Design (Undergraduate)
- Applied Mathematics for Chemical Engineers (undergraduate)
- Advanced Computer-Aided Process Simulation (graduate)
- Powder Technology (graduate)
- Fluidization Engineering (graduate)
- Transport Phenomena (graduate)

ADDITIONAL ACTIVITIES

- Founding Director, Process Design And Simulation Research Center
- Co-Founding Director, Multiphase Flow Laboratory, University of Tehran
- Board Member, Centre of Excellence for Oil and Gas Industries, Since 2005, University of Tehran.
- Member of the Graduate Studies Committee, 2000-2007.
- Member of UT Research Council, 2008-
- Member of the Recruitment Committee, 2000-2007.
- Member of Scientific Committees for Methanol, Petrochemical Research and Technology Co.
- Member of Scientific committees for Process Modeling and Simulation, Petrochemical Research and Technology Co.
- Founding Editor, Chemical Product and Process Modeling, The Berkeley Electronic Press, CA, USA, <http://www.bepress.com/cppm>.

CURRICULUM

Development and implementation of a new Pharmaceutical Engineering program, Chemical Engineering Department, University of Tehran, 2000-2004.

THESIS

- Senior Project (> 55 Completed)
- Master Thesis (30 completed, 7 in supervision)
- PhD Thesis, (1 completed, 4 in supervision)

SELECTED PROJECTS

- Simulation and kinetic studies of pyrolysis gasoline hydrogenation unit, Tabriz Petrochemical Co., IRAN.
- C₃+ recovery and process audit, National Iranian Gas Co.
- Simulation of food grade CO₂ production plant, Zamzam Co.
- Developing the Operator Training Simulator (OTS) for methanol synthesis plant, Zagross Petrochemical Co., IRAN
- MTP process development, Petrochemical Research and Technology Co.
- Sequential modular simulation of non-ideal reactors using process simulators applicable to reforming
- Grape drying process, experimental and modeling

RESEARCH INTERESTS

- Fluidization
- Process Modeling and Simulation
- Chemical Engineering Education
- Pharmaceutical Engineering
- Information Technology (IT)

RECENT GENERAL LECTURES (Invited)

- Research-Based Education at the Information Age, University of Science and Culture
- Electronic Journals creation and management, Sharif Technology Development Institute
- University of Tehran Structural Reform, Challenges and Perspectives, Faculty of Engineering, University of Tehran.
- Information Technology for Chemical Engineers, University of Tehran
- Excel-Aided Engineering, Qatar University, Doha, Qatar

PUBLICATIONS

Books

- 1 **Sotudeh-Gharebagh R.** and N. Mostoufi, Process Simulation, Boshra Publishing Co., 2005.
- 2 **Sotudeh-Gharebagh R.** and N. Mostoufi and A. Kiashemshaki, Steady State Process Simulation, Boshra Publishing Co., 2006.

Journal

Chemical Product and Process Modeling, Editors: **R. Sotudeh-Gharebagh**, N. Mostoufi and J. Chaouki, <http://www.bepress.com/cppm>

Refereed Papers

- 62 Kinetic modeling of oxidative coupling of methane over Mn/Na₂WO₄/SiO₂ catalyst, M. Daneshpayeh, A. A. Khodadadi, N. Mostoufi, Y. Mortazavi, **R. Sotudeh-Gharebagh**, A. R. Talebizadeh, **accepted in** *Fuel Processing Technology*, 2008.
- 61 Clusters identification and characterization in a gas-solid fluidized bed by the wavelet analysis, F. Afsahi, **R. Sotudeh-Gharebagh**, N. Mostoufi, **accepted in** *Canadian Journal of Chemical Engineering*, 2008.
- 60 Dynamic optimization of the benzene extractive distillation unit, A. Ghaee, **R. Sotudeh-Gharebagh** and N. Mostoufi, *Brazilian Journal of Chemical Engineering*, vol. 25, p. 765-776, 2008.
- 59 Nonlinear characterization of pressure fluctuations in fluidized beds, R. Zarghami, N. Mostoufi, **R. Sotudeh-Gharebagh**, *Industrial and Engineering Chemistry Research*, vol. 47, p. 9497-9507, 2008.
- 58 Investigation of heat transfer between a horizontal tube and gas-solid fluidized bed, N. Masoumifard, N. Mostoufi, A. A. Hamidi, **R. Sotudeh-Gharebagh**, *International Journal of Heat and Fluid Flow*, vol. 29, p. 1504-1511, 2008.
- 57 Modeling of the fully developed zone in the riser of circulating fluidized beds, Y. Khalighi, **R. Sotudeh-Gharebagh**, N. Mostoufi, *Industrial and Engineering Chemistry Research*, vol. 47, p. 5906-5912, 2008.
- 56 Effect of feed specifications on an industrial autothermal reformer performance and its optimization using genetic algorithm (in Persian), M. Hamdi-Gamchi, **R. Sotudeh-Gharebagh**, N. Mostoufi and F. Jalali-Farahani, *Amirkabir Journal of Science and Technology*, vol. 19, p. 29-37, 2008.
- 55 Particle size distribution in gas-phase polyethylene reactors, O. Ashrafi, H. Nazari-Pouya, N. Mostoufi and **R. Sotudeh-Gharebagh**, *Advanced Powder Technology*, vol. 19, p. 311-320, 2008.
- 54 Influence of hydrodynamic models on dynamic response of the fluidized bed polyethylene reactor, A. Sarvaramini, N. Mostoufi, **R. Sotudeh-Gharebagh**, *International Journal of Chemical Reactor Engineering*, vol. 6, A55, 2008, <http://www.bepress.com/ijcre/vol6/A55/>.
- 53 Modeling hydrogenation reactor of Soya bean oil (in Persian), **R. Sotudeh-Gharebagh**, L. Niknam, N. Mostoufi, *Journal of Faculty of Engineering*, vol. 42, p. 165-170, 2008.
- 52 Two-phase sequential simulation of a fluidized bed reformer, R. Habibi, S. Hajizadeh, **R. Sotudeh-Gharebagh**, N. Mostoufi, *Chemical Engineering and Technology*, vol. 31, p. 984-989, 2008.

- 51 Sequential Simulation of a Fluidized Bed Membrane Reactor for the Steam Methane Reforming Using ASPEN PLUS, A. Sarvar-Amini, **R. Sotudeh-Gharebakh**, H. Bashiri, N. Mostoufi, and A. Haghtalab, *Energy and Fuels*, 21, 3593-3598, 2007.
- 50 Semibatch Production of Pharmaceutical Grade Magnesium Stearate: A Statistical Approach, M. Askari, Sh. Fatemi, **R. Sotudeh-Gharebakh** and I. Haririan, *Chemical Engineering and Technology*, 30, 11, 1512-1518, 2007.
- 49 Optimization of radial flow reactors of styrene production, F. Abdollahi, N. Mostoufi and **R. Sotudeh-Gharebakh**, *International Journal of Chemical Reactor Engineering*, 5, A75, 2007, <http://www.bepress.com/ijcre/vol5/A75>.
- 48 Investigation of highly exothermic reactions in a turbulent fluidized bed reactor **R. Sotudeh-Gharebakh** and J. Chaouki, *Energy and Fuels*, 21, 4, p.2230-2237, 2007.
- 47 An experimental study of non-premixed combustion in a turbulent fluidized-bed reactor, **R. Sotudeh-Gharebakh**, J. Chaouki and P. Sauriol, *Fuel Processing Technology*, 88, p.847-858, 2007.
- 46 Analysis and modeling of particle-wall contact time in gas fluidized beds, R. Zarghami, N. Mostoufi, **R. Sotudeh-Gharebakh** and J. Chaouki, *Chemical Engineering Science*, 62, p. 4573-4578, 2007.
- 45 Evaluation of heat transfer coefficient in gas-solid fluidized beds using cluster-based approach, S. Karimipour, R. Zarghami, N. Mostoufi and **R. Sotudeh-Gharebakh**, *Powder Technology*, 172, p. 19-27, 2007.
- 44 Modeling of dispersion near roadways based on the vehicle-induced Turbulence Concept, A.M. Sahlodin, **R. Sotudeh-Gharebakh**, Y. Zhu, *Atmospheric Environment*, 41, 1, 2007.
- 43 Reactor modeling of fluidized bed ethylene polymerization using dynamic two phase behavior (in Persian), A. Kiashemshaki, N. Mostoufi and **R. Sotudeh-Gharebakh**, *Iranian Journal of Chemistry and Chemical Engineering*, 26,1, p51-60, 2007.
- 42 Grape drying: A review, M. Esmaili, **R. Sotudeh-Gharebakh**, K. Cronin, M.A. Mousavi and G. Rezazadeh, *Food Reviews International*, 23, p257-280, 2007.
- 41 Modeling of seedless grape drying process with variable diffusivity and shrinkage using generalized differential quadrature method, M. Esmaili, G. Rezazadeh, **R. Sotudeh-Gharebakh** and A. Tahmasebi, *Chemical Engineering and Technology*, 30, 2, 2007.
- 40 Clarification and purification of glucose syrups using polysulfone UF membrane (in Persian), R. Sadeghi, Z. Emam-Djomeh, **R. Sotudeh-Gharebakh**, M.A. Mousavi and M. Vosoghi, *Iranian Journal of Agricultural Engineering Research*, vol. 7, 28, p.119-131, 2006.

- 39 Effect of packaging on changes in biophysical and biochemical properties of golden delicious apple (in Persian), F. Khodaeian, M.A. Mousavi and **R. Sotudeh-Gharebagh**, *Iranian Journal of Agricultural Science*, vol. 37, 5, p.765-774, 2006.
- 38 Cluster-based modeling of fluidized catalytic oxidation of n-butane to maleic anhydride, H. R. Hakimelahi, **R. Sotudeh-Gharebagh** and N. Mostoufi, *International Journal of Chemical Reactor Engineering*, 4, A23, 2006, <http://www.bepress.com/ijcre/vol4/A23>.
- 37 Two-phase modeling of the gas phase polyethylene fluidized bed reactor, A. Kiashemshaki, N. Mostoufi and **R. Sotudeh-Gharebagh**, *Chemical Engineering Science*, vol. 61, p. 3997-4006, 2006.
- 36 Assessment of osmotic process in combination with coating on effective diffusivities during drying of apple slices, Z. Emam-Djomeh, J. Dehghannya and **R. Sotudeh-Gharebagh**, *Drying Technology*, 24, 9, 2006.
- 35 Osmotic dehydration of apple slices with carboxy-methyl-cellulose coating, J. Dehghannya, Z. Emam-Djomeh, **R. Sotudeh-Gharebagh** and M. Ngadi, *Drying Technology*, 24, 1, 2006.
- 34 Modeling the hydrodynamics of downers by cluster based approach, S. Karimipour, N. Mostoufi and **R. Sotudeh-Gharebagh**, *Industrial and Engineering Chemistry Research*, vol. 45, p. 7204-7209, 2006.
- 33 The dynamic modeling of the pressurizer surge tank transient in light water nuclear power plants, R. Zarghami, F. Jalali, N. Mostoufi, **R. Sotudeh-Gharebagh**, K. Sepanloo, F. Dastjerdi and N. Ahmari, *Iranian Journal of Science & Technology, Transaction B, Engineering*, vol. 29 (B5), p. 483-491, 2005.
- 32 Computer-aided process simulation for chemical engineers and necessity of its inclusion in B.S. Program (in Persian), **R. Sotudeh-Gharebagh** and M.A. Zarifi, *Iranian Journal of Engineering Education*, 25,7, 27-45 2005.
- 31 Simulation of the potato osmo-dehydration Process using equation oriented approach, A. Mazaheri, **R. Sotudeh-Gharebagh** and Z. Emam-Djomeh, *Journal of Biological Science*, vol. 5, 2, 2005.
- 30 Experimental investigation of particle contact time at the wall of gas fluidized beds, M. Hamidipour, N. Mostoufi, **R. Sotudeh-Gharebagh** and J. Chaouki, *Chemical Engineering Science*, vol. 60, p. 4349-4357, 2005.
- 29 Modeling the synthesis section of an industrial urea plant, M. Hamidipour, N. Mostoufi and **R. Sotudeh-Gharebagh**, *Chemical Engineering Journal*, vol. 106, p. 249-260, 2005.
- 28 Monitoring the particle-wall contact in a gas fluidized bed by RPT, M. Hamidipour, N. Mostoufi, **R. Sotudeh-Gharebagh** and J. Chaouki, *Powder Technology*, vol. 153, p. 119-126, 2005.

- 27 Simulation of the synthesis section of Stamicarbon urea process (in Persian), M. Hamidipour, N. Mostoufi and **R. Sotudeh-Gharebagh**, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 24, p. 45-56, 2005.
- 26 Optimal extraction of glycyrrhetic acid from licorice root, M. Amani, **R. Sotudeh-Gharebagh**, N. Mostoufi and H. A. Motahhari-Kashani, *Journal of Food Technology*, vol. 3, p. 576-580, 2005.
- 25 Hydrogen recovery from refinery off-gases, S. Faraji, **R. Sotudeh-Gharebagh** and N. Mostoufi, *Journal of Applied Sciences*, vol. 5, p. 459-464, 2005.
- 24 Simulation of an industrial pyrolysis gasoline hydrogenation unit, N. Mostoufi, **R. Sotudeh-Gharebagh** and M. Ahmadpour, *Chemical Engineering and Technology*, vol. 28, p. 174-181, 2005.
- 23 Hydrogenation of acetylene: Kinetic studies and reactor modeling, N. Mostoufi, A. Ghoorchian and **R. Sotudeh-Gharebagh**, *International Journal of Chemical Reactor Engineering*, vol. 3, A14, 2005, <http://www.bepress.com/ijcre/vol3/A14>
- 22 Particle-wall contact time in fluidized beds, R. Zarghami, N. Mostoufi, **R. Sotudeh-Gharebagh** and J. Chaouki, *IASME Transactions*, vol. 2, p. 1468-1473, 2005.
- 21 Reactor modeling of gas-phase polymerization of ethylene, A. Kiashemshaki, N. Mostoufi, **R. Sotudeh-Gharebagh** and S. Pourmahdian, *Chemical Engineering and Technology*, vol. 27, p. 1227-1232, 2004.
- 20 Modeling the acceleration zone in the riser of circulating fluidized beds, H. Sabbaghan, **R. Sotudeh-Gharebagh** and N. Mostoufi, *Powder Technology*, vol. 142, p. 129-135, 2004. (*Top 25 Hottest Articles*)
- 19 Simulation of an acid-based starch converter, A. Iranshahi, H. R. Hakimelahi, **R. Sotudeh-Gharebagh** and N. Mostoufi, *Chemical Engineering and Technology*, vol. 27, p. 569-577, 2004.
- 18 Performance of the wide-ranging models for fluidized bed reactors, R. Jafari, **R. Sotudeh-Gharebagh** and N. Mostoufi, *Advanced Powder Technology*, vol. 15, p. 533-548, 2004.
- 17 Modular simulation of fluidized bed reactors, R. Jafari, **R. Sotudeh-Gharebagh** and N. Mostoufi, *Chemical Engineering and Technology*, vol. 27, p. 113-122, 2004.
- 16 Two-phase simulation of gas-solid fluidized bed reactors by tanks-in-series model (in Persian), R. Jafari, **R. Sotudeh-Gharebagh**, N. Mostoufi, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 23, p. 33-41, 2004.
- 15 Modelling of fluidized bed reactor of ethylene polymerization, M. Alizadeh, N. Mostoufi, S. Pourmahdian, and **R. Sotudeh-Gharebagh**, *Chemical Engineering Journal*, vol. 97, p. 27-35, 2004.

- 14 Simulation of a catalytic turbulent fluidized bed reactor using the sequential modular approach, **R. Sotudeh-Gharebagh** and N. Mostoufi, *Fuel Processing Technology*, vol.85, p. 189-200, 2003.
- 13 Integrating the management course to undergraduate curriculum (in Persian), **R. Sotudeh-Gharebagh**, *Iranian Journal of Engineering Education*, 17, 2003.
- 12 Modeling moisture transfer in a packaging system of pomegranate fruits, S.M. Mousavi, M. Mohammadi-far, **R. Sotudeh-Gharebagh** and S. Desobry, *Acta Hort.*, 600, 2003.
- 11 Development of a clean fluidized bed reactor for food-grade CO₂ production, **R. Sotudeh-Gharebagh** and J. Chaouki, *International Energy Journal*, 4, 1, 2003.
- 10 Heterogeneous and homogeneous combustion of natural gas over the inert particles, **R. Sotudeh-Gharebagh** and J. Chaouki, *Canadian Journal of Chemical Engineering*, 81, 10, 2003.
- 9 Get the most out of the Internet, **R. Sotudeh-Gharebagh**, *Chemical Engineering*, 10, Oct. 2003.
- 8 Gas mixing in fluidized bed reactors at high temperatures, **R. Sotudeh-Gharebagh** and J. Chaouki, (in Persian), *Iranian Journal of Chemistry and Chemical Engineering*, 21, 2002.
- 7 IT and its application in chemical engineering (in Persian), **R. Sotudeh-Gharebagh**, *Iranian Journal of Engineering Education*, 13, 2002.
- 6 Internet resources for chemical engineers, (in Persian), **R. Sotudeh-Gharebagh** *Chemical Engineering Education*, 2, 2001.
- 5 The necessity of creating pharmaceutical engineering program at engineering faculties, (in Persian), **R. Sotudeh-Gharebagh**, *Iranian Journal of Engineering Education*, 3, 2001.
- 4 Gas mixing in a turbulent fluidized bed, **R. Sotudeh-Gharebagh** and J. Chaouki, *Canadian Journal of Chemical Engineering*, 76, 65-74, 2000.
- 3 High temperature combustion of natural gas in a turbulent fluidized bed, **R. Sotudeh-Gharebagh**, R. Legros and J. Chaouki, *Chemical Engineering Science*, 54, 2029-2037, 1999.
- 2 Chemical engineering in the next millennium, (in Persian), **R. Sotudeh-Gharebagh** and S. Tarverdi, *Iranian Journal of Chemistry and Chemical Engineering*, 17, 1999.
- 1 Simulation of circulating fluidized beds using ASPEN PLUS, **R. Sotudeh-Gharebagh**, R. Legros, J. Chaouki and J. Paris, *Fuel*, 77, 4, 327-337, 1998.

Refereed Conferences

- 53 In-bed combustion of natural gas in fluidized bed reactors: current practice and future trend, **R. Sotudeh-Gharebagh**, J. Chaouki, in *4th International Conference on Energy Research & Development (ICERD-4)*, Kuwait, 16-18 November 2008, pp. 418-426.
- 52 Hydrodynamic characterization of gas-solid fluidized beds using acoustic emission signals, N. Salehi-Nik, **R. Sotudeh-Gharebagh**, R. Zarghami, N. Mostoufi, in *Industrial Fluidization South Africa Conference (IFSA 2008)*, T. Hadley and P. Smit (eds.), Johannesburg (South Africa), 18-19 November 2008, pp. 418-426.
- 51 Detection of particle size in fluidized beds using vibration signals, M. Abbasi, **R. Sotudeh-Gharebagh**, R. Zarghami, N. Mostoufi, in *Industrial Fluidization South Africa Conference (IFSA 2008)*, T. Hadley and P. Smit (eds.), Johannesburg (South Africa), 18-19 November 2008, pp. 392-404.
- 50 Numerical investigation of solids mixing in gas fluidized beds using the discrete element method, Z. Mansourpour, N. Mostoufi, R. Zarghami, **R. Sotudeh-Gharebagh**, *18th International Congress of Chemical and Process Engineering (CHISA)*, Prague (Czech), 24-28 August 2008.
- 49 Modelling of the multizone gas-phase polyethylene reactor, A. Kiashemshaki, N. Mostoufi, **R. Sotudeh-Gharebagh**, *18th International Congress of Chemical and Process Engineering (CHISA)*, Prague (Czech), 24-28 August 2008.
- 48 DEM simulation of gas and particles behavior in a fluidized bed, S. Karimi, Z. Mansourpour, N. Mostoufi, **R. Sotudeh-Gharebagh**, *18th International Congress of Chemical and Process Engineering (CHISA)*, Prague (Czech), 24-28 August 2008.
- 47 Temperature effect on dimethyl ether to propylene conversion over ZSM-5, A. Eshraghi-Azar, A. Eliassi, **R. Sotudeh-Gharebagh**, N. Mostoufi, *18th International Congress of Chemical and Process Engineering (CHISA)*, Prague (Czech), 24-28 August 2008.
- 46 Kinetic modeling of OCM over the $\text{MnIn}_2\text{WO}_4/\text{SiO}_2$ by genetic algorithm, M. Daneshpayeh, A. A. Khodadadi, N. Mostoufi, Y. Mortazavi, R. Sotoudeh-Gharebagh, A. Talebizadeh, *The 14th International Congress on Catalysis (ICC)*, Seoul (Korea), 13-18 July 2008.
- 45 Theoretical investigation of the deceleration zone in the riser of the circulating fluidized bed, Y. Khalighi, **R. Sotudeh-Gharebagh**, N. Mostoufi, *9th International Conference on Circulating Fluidized Beds, CFB-9*, J. Werther, W. Nowak, K. E. Wirth and E. U. Hartge (eds.), Hamburg (Germany), 13-16 May 2008, pp. 111-116.
- 44 Scale effects on gas-solid fluidized bed hydrodynamics, H. Bashiri, N. Mostoufi, **R. Sotudeh-Gharebagh**, R. Radmanesh, J. Chaouki, in *The 5th International Chemical Engineering Congress*, Kish (Iran), 2-5 January 2008, pp. 167.

- 43 Modeling of particle size distribution in gas-phase ethylene/propylene copolymerization reactor, A. Hossienzadeh-Nik, S. Karimi, N. Mostoufi, S. Pourmahdian, in *The 5th International Chemical Engineering Congress*, Kish (Iran), 2-5 January 2008, pp. 157.
- 42 Effect of hydrodynamics on the control scheme of the fluidized bed polyethylene production process, A. Sarvaramini, N. Mostoufi and **R. Sotudeh-Gharebagh**, in *ISPST - 8th International Seminar on Polymer Science and Technology*, Tehran (Iran), 23-25 October 2007.
- 41 Nonlinear prediction of fluidized bed pressure fluctuation, R. Zarghami, N. Mostoufi and **R. Sotudeh-Gharebagh**, *Proceedings of European Congress of Chemical Engineering (ECCE-6)*, 16-20 September 2007, Copenhagen, Denmark.
- 40 Effect of temperature on hydrodynamics of fluidized beds, Sh. Sanaei, N. Mostoufi, R. Radmanesh, **R. Sotudeh-Gharebagh**, J. Chaouki, *Proceedings of European Congress of Chemical Engineering (ECCE-6)*, 16-20 September 2007, Copenhagen, Denmark.
- 39 Dynamic optimization of the auto-thermal reformer using genetic algorithm, M. Hamdi-Gamchi, **R. Sotudeh-Gharebagh**, N. Mostoufi, F. Jalali-Farahani, *Second International Conference on Advances in Petrochemicals and Polymers*, June 25-28th, 2007, Bangkok, Thailand.
- 38 Ant colony optimization: A leading algorithm in future , F. Jalalinejad, F. Jalali-Farahani, N. Mostoufi and **R. Sotudeh-Gharebagh**, 17th European Symposium on Computer Aided Process Engineering *ESCAPE17*, 27-30 May 2007, V. Plesu and P.S. Agachi (Editors), pp. 1-6., Bucharest, Romania.
- 37 On the presence of particles at the wall of gas fluidized beds, R. Zarghami, N. Mostoufi, **R. Sotudeh-Gharebagh** and J. Chaouki, in *Fluidization XII*, X. Bi, F. Berruti and T. Pugsley (eds.), Harrison Hot Springs (Canada), May 13-18, 2007, pp. 225-232, http://services.bepress.com/eci/fluidization_xii/26.
- 36 Prediction of the dynamics of a fluidized bed reactor using artificial neural networks, S. Karimipour, N. Mostoufi and **R. Sotudeh-Gharebagh**, in *Fluidization XII*, X. Bi, F. Berruti and T. Pugsley (eds.), Harrison Hot Springs (Canada), May 13-18, 2007, pp. 719-726, http://services.bepress.com/eci/fluidization_xii/88.
- 35 Particle size distribution in gas-phase polyethylene reactors, O. Ashrafi, N. Mostoufi and **R. Sotudeh-Gharebagh**, in *Fluidization XII*, X. Bi, F. Berruti and T. Pugsley (eds.), Harrison Hot Springs (Canada), May 13-18, 2007, pp. 1009-1018, http://services.bepress.com/eci/fluidization_xii/124.
- 34 Measuring of the fluidized bed parameters using an optical fiber probe (in **Persian**), S. Karimipour, N. Mostoufi and **R. Sotudeh-Gharebagh**, in *11th National Iranian Chemical Engineering Congress*, Tarbiat Modarres University, November 28-30, 2006.

- 33 Modeling of an industrial autothermal reformer and study of feed effects on product specification (in Persian), M. Hamdi-Gamchi, **R. Sotudeh-Gharebagh**, N. Mostoufi, F. Jalali-Farahani, F. Jalalinejad, in *11th National Iranian Chemical Engineering Congress*, Tarbiat Modarres University, November 28-30, 2006.
- 32 Particle size distribution in gas-phase polyethylene reactors (in Persian), O. Ashrafi, N. Mostoufi, **R. Sotudeh-Gharebagh**, in *11th National Iranian Chemical Engineering Congress*, Tarbiat Modarres University, November 28-30, 2006.
- 31 Hydrodynamic index for fluidisation bed reactor, H. R. Hakimelahi, **R. Sotudeh-Gharebagh** and N. Mostoufi, *11th Asian Pacific Conference of Chemical Engineering (APCChE)*, Kuala Lumpur (Malaysia), August 27-30, 2006.
- 30 Modeling of the downer of a circulating fluidized bed, S. Karimipour, N. Mostoufi, **R. Sotudeh-Gharebagh** and M. Hamdi-Gamchi, *17th International Congress of Chemical and Process Engineering (CHISA)*, Prague (Czech), August 27-31, 2006.
- 29 Dynamic modeling of gas-phase ethylene polymerization reactor, A. Hassimi, N. Mostoufi and **R. Sotudeh-Gharebagh**, *17th International Congress of Chemical and Process Engineering (CHISA)*, Prague (Czech), August 27-31, 2006.
- 28 Modeling of seedless grape drying process with variable diffusivity considering shrinkage, M. Esmaili, **R. Sotudeh-Gharebagh**, K. Cronin and G. Rezazadeh, *CSBE/SCGAB 2006 Annual Conference*, Edmonton Alberta, July 16 - 19, Paper No. 06-199, 2006.
- 27 Challenges in operation of highly exothermic reactions in fluidized beds, **R. Sotudeh Gharebagh** and Jamal Chaouki, *Industrial Fluidization South Africa Conference, Johannesburg*, 15-17 Nov. 2005.
- 26 Simulation of a fluidized bed steam reformer, M. Karimi, A. Akhavan, N. Mostoufi and **R. Sotudeh-Gharebagh**, *Industrial Fluidization South Africa Conference (IFSA)*, Johannesburg (South Africa), November 15-17, 2005.
- 25 Particle-wall contact time in fluidized beds, R. Zarghami, N. Mostoufi, **R. Sotudeh-Gharebagh** and J. Chaouki, in *Proceedings of the 3rd IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment*, Corfu (Greece), August 20-22, 2005, pp. 85-90.
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Last updated: Dec., 2008