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EDUCATION

1994-1999 Ph.D. in Chemical Engineering
École Polytechnique de Montréal, Montreal, Canada
Thesis subject: Solids Behaviour in Fluidized Beds

1989–1992 M.Sc. in Chemical Engineering
University of Tehran, Tehran, Iran

1984-1989 B.Sc. in Chemical Engineering
University of Tehran, Tehran, Iran

WORKING EXPERIENCES

2009-present Professor
Department of Chemical Engineering, University of Tehran

2005-2008 Associate Professor
Department of Chemical Engineering, University of Tehran

2000-2004 Assistant Professor
Department of Chemical Engineering, University of Tehran

6/2002-8/2004 Consultant (Process Design)
Oil Industries Engineering and Construction Co.
Revamping of FCC Unit, Abadan Refinery

9/2000-8/2001 Senior Process Engineer
Zolal Iran Co.

1/2000-6/2000 Post-Doc Researcher
École Polytechnique de Montréal

1989 - 1994 Process Engineer (Last position: Head of Process Engineering)
Chagalesh Consulting Engineers, Tehran, Iran

INDUSTRIAL PROJECTS

1. Investigating the fluidability of the catalyst used in FCC unit, Abadan Oil Refining Co.

2. Monitoring the quality of fluidization in fluidized beds, Petrochemical Research and Technology Co.

3. Developing the operator training simulator for olefin plant, Marun Petrochemical Co.

4. Developing the operator training simulator for methanol synthesis plant, Zagross Petrochemical Co.

5. Developing the operator training simulator for methanol synthesis plant, Fanavaran Petrochemical Co.

6. Developing the operator training simulator for butadiene extraction plant, Amirkabir Petrochemical Co.

7. Design and construction of a cold fluidized bed for studying the hydrodynamics of polyethylene reactors, Petrochemical Research and Technology Co.

8. Static and dynamic simulation of the synthesis section of urea production plant, Khorasan Petrochemical Co.

9. Simulation of fluidized bed reactor of polyethylene production, Tabriz Petrochemical Co.

PUBLICATIONS

Books

Numerical Methods for Chemical Engineers with MATLAB Applications, A. Constantinides and **N. Mostoufi,** Prentice Hall PTR, April 1999.

Solutions Manual to Numerical Methods for Chemical Engineers with MATLAB Applications, A. Constantinides and **N. Mostoufi,** Prentice Hall PTR, July 1999.

Process Simulation Using HYSYS, R. Sotudeh-Gharebagh and **N. Mostoufi**, Boshra Publishing Co., Winter 2005.

Steady Sate Process Simulation Using HYSYS, R. Sotudeh-Gharebagh, **N. Mostoufi**, A. Kiashemshaki, Boshra Publishing Co., Winter 2006.

Journals

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

Journal of Faculty of Engineering, Editor-in-Chief: **N. Mostoufi**, http://jfe.ut.ac.ir.

Refereed Papers

53. 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.

52. Kinetic modeling of oxidative coupling of methane over $Mn/Na_2WO_4/SiO_2$ catalyst, M. Daneshpayeh, A. A. Khodadadi, **N. Mostoufi**, Y. Mortazavi, R. Sotudeh-Gharebagh, A. R. Talebizadeh, *Fuel Processing Technology*, vol. 90, p. 403-410, 2009.

51. 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.

50. Nonlinear characterisation of pressure fluctuations in fluidized beds, R. Zarghami, **N. Mostoufi**, R. Sotudeh-Gharebagh, *Industrial and Engineering Chemistry Research*, vol. 47, p. 9497-9507, 2008.

49. Bubble size distribution in oil-based bubble columns, S. Homayouni, M. R. Mehrnia, **N. Mostoufi**, M. Rajabi, A. Yazdani, *Chemical Engineering and Technology*, vol. 31, p. 1668-1675, 2008.

48. 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.

47. 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.

46. 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.

45. 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.

44. 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/.

43. 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.

42. 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.

41. A hybrid GA-SQP optimization technique for determination of kinetic parameters of hydrogenation reactions, B. Mansoornejad, **N. Mostoufi** and F. Jalali-Farahani, *Computers and Chemical Engineering*, vol. 32, p. 1447-1455, 2008.

40. Dynamic optimization using a hybrid GA-SQP technique, B. Mansoornejad, **N. Mostoufi**, F. Jalali-Farahani, *Chemical Product and Process Modeling*, vol. 2, iss. 3, Article 30, 2007, http://www.bepress.com/cppm/vol2/iss3/30.

39. Sequential simulation of a fluidized bed membrane reactor for the steam methane reforming using ASPEN PLUS, A. Sarvar-Amini, R. Sotudeh-Gharebagh, H. Bashiri, **N. Mostoufi** and A. Haghtalab, *Energy and Fuels*, vol. 21, p. 3593-3598, 2007.

38. Optimization of radial flow reactors of styrene production, F. Abdolahi, **N. Mostoufi** and R. Sotudeh-Gharebagh, *International Journal of Chemical Reactor Engineering*, vol. 5, A75, 2006, http://www.bepress.com/ijcre/vol5/A75.

37. Analysis and modeling of particle-wall contact time in gas fluidized beds, R. Zarghami, **N. Mostoufi**, R. Sotudeh-Gharebagh and J. Chaouki, *Chemical Engineering Science*, vol. 62, p. 4573-4578, 2007.

36. Reactor modeling of fluidized bed ethylene polymerization using dynamic two phase behavior (in Persian), A. Kiashemshaki, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 26, p. 51-60, 2007.

35. Multiobjective dynamic optimization of an industrial steam reformer with genetic algorithm, A. Alizadeh, **N. Mostoufi** and F. Jalali-Farahani, *International Journal of Chemical Reactor Engineering*, vol. 5, A19, 2007, http://www.bepress.com/ijcre/vol5/A19.

34. Evaluation of heat transfer coefficient in gas-solid fluidized beds using cluster-based approach, S. Karimipour, R. Zarghami, **N. Mostoufi** and R. Sotudeh-Gharebagh, *Powder Technology*, vol. 172, p. 19-27, 2007.

33. 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.

32. 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, vol. 4, A23, 2006, http://www.bepress.com/ijcre/vol4/A23.

31. 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.

30. The dynamic modeling of the pressurizer surge tank transient in light water nuclear power plants, R. Zarghami, F. Jalali, **N. Mostoufi**, R. Sotudeh, K. Sepanloo, F. Dastjerdi and N. Ahmari, *Iranian Journal of Science & Technology, Transaction B, Engineering*, vol. 29 (B5), p. 483-491, 2005.

29. 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.

28. Optimal extraction of glycyrrhetinic 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.

27. 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

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25. 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.

24. Simulation of the synthesis section of Stamicarbon urea process (in Persian), M. Hamidipour, **N. Mostoufi** and R. Sotudeh-Gharebag, *Iranian Journal of Chemistry and Chemical Engineering*, vol. 24, p. 45-56, 2005.

23. 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.

22. 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.

21. Hydrogen recovery from refinery off-gases, S. Faraji, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Journal of Applied Sciences*, vol. 5, p. 459-464, 2005.

20. Genetic algorithm optimization of the conditions of rice straw pulping with aqueous methanol, S. Navaee-Ardeh, **N. Mostoufi**, J. Mohammadi-Rovshandeh, A. A. Khodadadi, *Cellulose Chemistry and Technology*, vol. 5-6, p. 333-343, 2004.

19. 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.

18. 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.

17. 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.

16. Flow structure of the solids in gas-solid fluidized beds, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Science*, vol. 59, p. 4215-4225, 2004.

15. 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.

14. 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.

13. Modular simulation of fluidized bed reactors, R. Jafari, R. Sotudeh-Gharebagh and **N. Mostoufi**, *Chemical Engineering and Technology*, vol. 27, p. 113-122, 2004. Erratum 2004, 27, 224.

12. 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.

11. 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.

10. Decreasing the sampling time interval in radioactive particle tracking, **N. Mostoufi**, G. Kennedy and J. Chaouki, *Canadian Journal of Chemical Engineering*, vol. 81, p. 129-133, 2003.

9. A comparison of two- and single-phase models for fluidized bed reactors, **N. Mostoufi**, H. Cui and J. Chaouki, *Industrial and Engineering Chemistry Research*, vol. 40, p. 5526-5532, 2001.

8. Gas and solids between bubble and emulsion in gas-fluidized beds", H. Cui, **N. Mostoufi** and J. Chaouki, *Powder Technology*, vol. 120, p. 12-20, 2001.

7. Local solid mixing in gas-solid fluidized beds, **N. Mostoufi** and J. Chaouki, *Powder Technology*, vol. 114, p. 23-31, 2001.

6. Predicting the performance of fluidized bed reactors, **N. Mostoufi**, *International Journal of Science and Technology of the University of Kashan*, vol. 1, p. 19-37, 2000.

5. On the axial movement of solids in gas-solid fluidized beds, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Research and Design*, vol. 78, p. 911-920, 2000.

4. Characterization of dynamic gas-solid distribution in fluidized beds, H. Cui, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Journal*, vol. 79, p. 135-145, 2000.

3. Prediction of effective drag coefficient in fluidized beds, **N. Mostoufi** and J. Chaouki, *Chemical Engineering Science*, vol. 54, p. 851-858, 1999.

2. Computer simulation of heat transfer between gas fluidized beds and heat exchanger elements (in Persian), H. Panahandeh, **N. Mostoufi** and M. Sadeghi, *The Journal of the Iranian Petroleum Institute*, No. 23, p. 23-34, 1990.

1. Study of the precision of equations of state of gases (in Persian), H. Panahandeh, **N. Mostoufi** and M. K. Khoshkbarchi, *Memoirs of the Faculty of Engineering - Tehran University*, No. 50, p. 1-20, 1990.

Refereed Conferences

55. 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.

55. 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.

54. Investigating the quality of gas distribution in different plenum chambers of fluidized bed by computational fluid dynamics, A. Mohammadkhah, **N. Mostoufi**,

in 12th National Iranian Chemical Engineering Congress, Sahand University, Tabriz, 20-23 October 2008.

53. 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.

52. 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.

51. 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.

50. Effect of liquid hourly space velocity on conversion of methanol to dimethyl ether (DME) over γ-alumina at different temperatures, 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.

49. 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.

48. Kinetic modeling of OCM over the $MnINa_2WO_4/SiO_2$ 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.

47. 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.

46. Modeling of bubble breakage in bubble column reactors, S. Homayouni, M. R. Mehrnia, **N. Mostoufi**, M. Rajabi, in The 5th International Chemical Engineering Congress, Kish (Iran), 2-5 January 2008, pp. 228.

45. 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.

44. 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.

43. 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.

42. Nonlinear prediction of fluidized bed pressure fluctuation, R. Zarghami, **N. Mostoufi** and R. Sotudeh-Gharebagh, in ECCE-6 - European Congress of Chemical Engineering, R. Gani and K. Dam-Johansen (eds.), Copenhagen (Denmark), 16-20 September 2007.

41. Effect of temperature on hydrodynamics of fluidized beds, Sh. Sanaei, **N. Mostoufi**, R. Radmanesh, R. Sotudeh-Gharebagh and J. Chaouki, in ECCE-6 - European Congress of Chemical Engineering, R. Gani and K. Dam-Johansen (eds.), Copenhagen (Denmark), 16-20 September 2007.

40. Dynamic optimization of acetylene hydrogenation unit using a hybrid GA-SQP algorithm, B. Mansoornejad, **N. Mostoufi** and F. Jalali-Farahani, in EUROSIM 2007, B. Zupančič, R. Karba, S. Blažič, (eds.), Ljubljana (Slovenia), 9-13 September 2007.

39. Ant colony optimization: A leading algorithm in future optimization of chemical processes, F. Jalalinejad, F. Jalali-Farahani, **N. Mostoufi**, R. Sotudeh-Gharebagh, in 17th European Symposium on Computer Aided Process Engineering – ESCAPE17, Bucharest (Romania), 27-30 May 2007, V. Plesu and P.S. Agachi (eds.).

38. Dynamic optimization of the autothermal reformer using genetic algorithm, M. Hamdi-Gamchi, R. Sotudeh-Gharebagh, **N. Mostoufi** and F. Jalali-Farahani, in ICAPP 2007 – The 2nd International Conference on Advances in Petrochemicals and Polymers, Bangkok (Thailand), 25-28 June 2007, pp. 202.

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), 13-18 May 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), 13-18 May 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), 13-18 May 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 Presian), S. Karimipour, **N. Mostoufi** and R. Sotudeh-Gharebagh, in 11th National Iranian Chemical Engineering Congress, Tarbiat Modarres University, 28-30 November 2006.

33. Particle size distribution in gas-phase polyethylene reactors (in Presian), O. Ashrafi, **N. Mostoufi** and R. Sotudeh-Gharebagh, in 11th National Iranian Chemical Engineering Congress, Tarbiat Modarres University, 28-30 November 2006.

32. Modeling of an industrial autothermal reformer and study of feed effects on product specification (in Presian), M. Hamdi-Gamchi, R. Sotoudeh-Gharebagh, **N. Mostoufi**, F. Jalali-Farahani and F. Jalalinejad, in 11th National Iranian Chemical Engineering Congress, Tarbiat Modarres University, 28-30 November 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), 27-30 August 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), 27-31 August 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), 27-31 August 2006.

28. Simulation of a fluidized bed steam reformer, M. Karimi, A. Akhavan, **N. Mostoufi** and R. Sotudeh-Gharebagh, Industrial Fluidization South Africa Conference (IFSA 2005), Johannesburg (South Africa), 15-17 November 2005.

27. Modeling and simulation of a fluidized catalytic cracking unit (in Presian), M. Sarparast, R. Bozorgmehri, **N. Mostoufi** and F. Jalali-Farahani, in 10th National Iranian Chemical Engineering Congress, University of Sistan and Balouchestan, 15-17 November 2005.

26. 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), 20-22 August 2005, pp. 85-90.

25. Sequential modeling of polyethylene fluidized bed reactor, A. Kiashemshaki, **N. Mostoufi**, R. Sotudeh-Gharebagh and R. Zarghami, in Proceedings of ECOREP III, Lyon (France), 20-24 June 2005, pp. 114-117.

24. Modelling the two-stage pyrolysis gasoline hydrogenation, **N. Mostoufi**, M. Ahmadpour and R. Sotudeh-Gharebagh, presented in 15th European Symposium on Computer Aided Process Engineering – ESCAPE 15, Barecelona (Spain), 29 May – 1 June, 2005, published in Computer-Aided Chemical Engineering, vol. 20A, L. Puigjaner and A. Espuña (eds.), Elsevier, pp. 451-456.

23. Simulation of an acetylene hydrogenation reactor, **N. Mostoufi**, A. Ghoorchian and R. Sotudeh-Gharebagh, in Proceedings of SIMMOD 2005, V. Kachitvichyanukul, U. Purintrapiban and P. Utayopas (eds.) Bangkok (Thailand), 17-19 January 2005, pp. 157-163.

22. Steady-state and dynamic simulation of the process of extractive distillation of 1,3-butadiene from the C_4-cut, R. Saffari, F. Abbasi, F. Jalali-Farahani and **N. Mostoufi**, in Proceedings of SIMMOD 2005, V. Kachitvichyanukul, U. Purintrapiban and P. Utayopas (eds.) Bangkok (Thailand), 17-19 January 2005, pp. 150-156.

21. Reactor modeling of fluidized bed ethylene polymerization using dynamic two phase behavior (in Persian), A. Kiashemshaki, **N. Mostoufi** and R. Sotudeh-Gharebagh, in 9th National Iranian Chemical Engineering Congress, Iran University of Science and Technology, 23-25 November 2004.

20. Modeling of an industrial urea synthesis reactor using sequential modular approach, M. Hamidipour, **N. Mostoufi** and R. Sotudeh-Gharebagh, in Proceedings of SIMS 2004, B. Elmegaard, J. Sporring, K. Erleben and K. Sørensen (eds.) Copenhagen (Denmark), 23-24 September 2004, pp. 27-33.

19. Simulation of a laminar flow reactor for catalytic conversion of starch, A. Iranshahi, H. R. Hakimelahi, R. Sotudeh-Gharebagh, **N. Mostoufi** and M. H. Sarrafzadeh, in 16th International Congress on Chemical and Process Engineering (CHISA 2004), Prague (Czech), 22-26 August 2004.

18. Estimation of solids flow properties in gas-solid fluidized beds, **N. Mostoufi** and J. Chaouki, in Fluidization XI, U. Arena, R. Chirone, M. Miccio and P. Salatino (eds.) Ischia (Italy), 9-13 May 2004, pp. 131-138.

17. Recovery of CO_2 from vent gases of melamine production units, A. M. Rouhani, B.Yeganeh-Talab, **N. Mostoufi** and R. Sotoudeh-Gharabagh, International

Conference on Engineering and Food (ICEF-9), Montpellier (France), 7-11 March 2004.

16. Simulation of synthesis section of urea plant (in Persian), M. Hamidipour, **N. Mostoufi** and R. Sotudeh-Gharebagh, in 8th National Iranian Chemical Engineering Congress, University of Mashhad, 21-23 October 2003.

15. Simulation of butadiene unit of Amirkabir petrochemical Co. (in Persian), R. Saffari, F. Abbasi, **N. Mostoufi** and F. Jalali-Farahani, in 8th National Iranian Chemical Engineering Congress, University of Mashhad, 21-23 October 2003.

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