

Curriculum Vitae

Name: Zaidoon Mohsin Shakor
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E-mail: dr_zaidoon@yahoo.com
Date of Birth: 1975/6/21 Baghdad
Nationality: Iraqi
Gender: Male
Marital status: Married having three children
Languages: Arabic, Turkish, English and France
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Educations:

- ◆ Ph.D. in Chemical Engineering 2004
Thesis: Dynamics and Simulation of Azeotropic and Extractive Batch Distillation.
- ◆ M.Sc. in Chemical Engineering 1999
Thesis: Dynamics, Simulation and Control of Batch Cooling Crystallizer.
- ◆ B.Sc. in Chemical Engineering 1997

Training Courses

- ◆ Scientific Visit and Training at the Department of Chemical and Biochemical Engineering, Missouri University of Science and Technology, United State, titled "Modeling and Simulation of Multi-Phase Reactors", (December 4, 2014 – January 3, 2015).

Professional Experience

- December 2012 - Up to date, Assistant Professor, Chemical Engineering Department, University of Technology.
- July 2004 - December 2012, Lecturer, Chemical Engineering Department, University of Technology.
- April 2002 - July 2004, assistant lecturer, Chemical Engineering Department, University of Technology.

Research Activities:

- Member in research unit of chemical engineering department specialized in reactive distillation.
- Contraction with ministry of higher education to study the control of reactive distillation columns.
- Consultant at the Centre for research and development of oil / oil ministry on the issue of the restoration of the flue gases and a redesign of the modern refineries for the distillation of heavy oils Iraqi (2016).

- Also research interests are related to process dynamic modeling, simulation and optimization of chemical processes.

Specially interested in:

- Processes modeling, simulation, optimization and control.
- Azeotropic, extractive and reactive distillation columns.
- Fixed bed, trickle bed and monolithic reactors.
- Parameter estimation and evaluation of reaction kinetics.
- Applying modern optimization techniques in chemical engineering.

Employment:

- Member of the staff of Chemical Engineering Department, University of Technology, Baghdad, April 2002 up to date.
- Member of undergraduate examination comity of Chemical Engineering Department, University of Technology, Baghdad, 2002 - 2008.
- Director of the Statistics Unit, 2008 – 2010.
- Member of postgraduate examination comity of Chemical Engineering Department, University of Technology, Baghdad, 2010 - 2012.
- Director, Division of Scientific Committees, 2012.
- Assistant dean of college for Administrative Affairs 2012- up to date.

Memberships:

Organization	Role	Member Since
Iraqi Engineers Union	Member	22/10/1997

Skills:

Skill	Level	Years Practiced
Processes control	Very Good	2002-2015
Programming by Visual Basic	Good	2004-2013
Programming by Matlab	Excellent	2004-2015
Aspen Hysys	Good	2015-2016
Numerical Analysis	Very Good	2010-2015

Courses Taught:

Course	Years Practiced
Optimization (Fourth Class)	2002-2003
Process Control Labrotary (Fourth Class)	2002-2004
Computer (First Class)	2003-2004
Computer Programming (Second Class)	2004-2014
Numerical Analysis (M.Sc. Laboratory)	2010-2014
Process Control (Fourth Class)	2013-2016
Numerical Analysis (Third Class)	2014-2016

Post Graduate Theses Supervised:

Ph.D. Thesis:

- Adel A. Shuhaib Al-Kareemawi, " α -Methyl Styrene Hydrogenation In a Batch and Single Channel Monolithic Reactors", Ph.D. Thesis, University of Technology, Chemical Engineering Department , November 2008.

M.Sc. Thesis:

- Mohammed Z. Mohammed, "Mathematical Modeling and Simulation of MTBE Production by Reactive Distillation", M. Sc. Thesis University of Technology, Chemical Engineering Department, February 2009.
- Mohamad S. Baker, "Dynamic Simulation and Optimization of Reactive Distillation", M. Sc. Thesis, University of Technology, Chemical Engineering, 2012.
- Mohamad O. Abdul-Sttar, "Optimization of Distillation Column using Genetic Algorithm and Aspen plus", M. Sc. Thesis, University of Technology, Chemical Engineering, 2013.
- Huda Ammer Abd-Al Kader, "Computer Aided Design and Optimization of a Petochemical Complex", 2014.
- Ayman Fawzy Zoain, "Application of LabView and Genetic Algorithm for controlling of Plate Heat Exchanger", 2014.
- Nasma Balasm Ahmed, "Modeling and Simulation of Inverse Three Phase Fluidized Bed Characteristics Using Matlab" 2015.
- Anfal Hayder Salih, "Applying Modern optimization Techniques in Prediction of Reaction Kinetics of Iraqi Refinery's" 2016.

M.Sc. Thesis under Supervision:

- Hayder Hashim, "Modeling and Optimization of Heavy Metal separation by Adsorption".

Higher Diploma Thesis under Supervision:

- Suha Sami Kasm, "Prediction of Reaction Kinetics for Heavy Naphtha Hydrotreating".
- Azad Mustafa Jawhar, "Applying Hysys for Simulation and Optimization of Natural Gas Sweetening by Amine Process)".

Papers Published:

- Safa A. Al-Naimi , Ghanim M. Alwan, **Zaidoon M. Al-Aubaidy**, "Dynamic and Control of Batch Cooling Crystallizer", First Scientific Conference of the College of Engineering, University of Tikrit, 1999.
- **Zaidoon M. Shakoor**, Safa A. Al-Naimi, Nada B. Al- Nakash, "Dynamic Simulation of Batch Azeotropic Distillation", Eng.& Technology, Vol.25, No.6,757-774, 2005.
- **Zaidoon M. Shakoor**, Safa A. Al-Naimi, Nada B. Al- Nakash, "Mathematical Modeling of Multi Component Batch Extractive Distillation", Eng.& Technology, Vol.25, No.6,757-774, 2007.

- Majid S. Radhaa, Khalid A. Sukkar, Jamal M. Ali, **Zaidoon M. Shakoor**, Niran Manwel, "Hydrodynamics, Mass and Heat Transfer in Reactive Distillation", Al-khwarizmi Eng. J, Vol.4, No.2 , pp 1-9, 2008.
- **Zaidoon M. Shakoor**, and Khalid A. Sukkar "Dynamic Simulation of Semi-Batch Catalytic Distillation Used for Esterification Reaction" Eng. & Technology, no. 7, vol 26,777-796, 2008.
- **Zaidoon M. Shakoor** , Mumtaz A. Zablouk & Adel A. Shuhaib , "Reaction Kinetic of α -methylstyrene (AMS) Hydrogenation", Eng. & Tech. Journal ,Vol.27, No.7,1301-1316, 2009.
- Nada B. Al-Nakash, Neran K. Ibrahim, Salah S. Ibrahim, **Zaidoon M. Shakoor**" Comparison between Equilibrium Model and Rate Base Model for Simulation Batch Azeotropic Distillation",Eng. & Tech. Journal ,Vol.27, No. 16 ,3129-3154, 2009.
- Zahra'a F. Zuhwar, **Zaidoon M. Shakoor** "Control of Neutralization process for Change over Titration Curve Using Model of Strong Base-wak Acid", Second Scientific Conference of the College of Engineering, University of Al-Qadisiya, 156-178, 2009.
- **Zaidoon M. Shakoor**, "Mathematical Modeling and Simulation of the Dehydrogenation of Ethyl Benzene to Form Styrene Using Steady-State Fixed Bed Reactor" Tikrit J. of Eng. Sciences, Vol.13, No.1, P.35-62, 2010.
- Adel A. Shuhub, Jenan A. Al-Najar, **Zaidoon M. Shakoor**, Lange R. , "Modeling of Single Channel Monolithic Reactor with the Single Pass Flow Operation System", Eng. & Tech. Journal ,Vol.28, No. 11, 2010.
- Jenan A. Al-Najar, Ramzy S. H, **Zaidoon M. Shakoor**, "Removal of Cadmium (II) onto granular Activated Carbon and Kaolinite using Batch Adsorption",Eng. & Tech. Journal ,Vol.28, No. 10 ,2070-3080,2009.
- **Zaidoon M. Shakoor**, "Prediction Reactive Residue Curve Map (rRCM) for Quaternary System", First scientific conference of modern technologies in the oil refining and gas, Baghdad 2011.
- **Zaidoon M. Shakoor**, "Estimation of Kinetic Parameters of Complex Reactions by MATLAB Software ", First scientific conference of modern technologies in the oil refining and gas, Baghdad 2011.
- **Zaidoon M. Shakoor**, Khalid A. Sukkar., Mohammed S. Baqer, "Reaction Kinetics of Acetic Acid and n-Butanol Esterification Catalyzed by Dowex 50 Catalyst., Eng. & Tech. Journal ,Vol.29 , No.10 , 2011.
- Ghanim M. Alwan, **Zaidoon M. Shakoor**, Muttha.S.Murttha, "Optimal Control of PH for a Wastewater Treatment Unit Using LABVIEW Technique" Student Poster session, AIChE, 2011.
- **Zaidoon M. Shakoor**, "Catalytic Reforming of Heavy Naphtha, Analysis and Simulation", Diyala Journal of Engineering Sciences, Vol. 04, No. 02 , pp. 86-104, December 2011.
- Saad. R. Sultan, W.J.N. Fernando, **Zaidoon. M. Shakoor**, S.A. Sata, "Modeling of Particles Growth in Styrene Polymerization, Effect of Particle Mass Transfer on Polymerization Behavior and Molecular Weight Distribution" Malaysian Polymer Journal, Vol. 6, No. 2, p 119-134, 2011.

- Intisar H. Aljumiliy, Farah T. Al-Sudani, **Zaidoon M. Shakoor**, "Three - Way-Catalyst- Monolith Converters (Pt- Loaded) for Gasoline Engine: Experimental Study and Modeling", Jordan six chemical engineering conference, 2012.
- **Zaidoon M. Shakoor**, "Optimization of Al-Doura Catalytic Naphtha Reforming Process Using Genetic Algorithm" Eng. & Tech. Journal, Vol.31, Part (A), No.7, 2013.
- Safa A. Al-Naimi, **Zaidoon M. Shakoor** and Mohammed O. Abdul-Satar , " Optimization of Demethanizer Distillation Column using Genetic Algorithm" Second scientific conference of modern technologies in the oil refining and gas, Baghdad 2013.
- Ramzy. H. Saihod, **Zaidoon M. Shakoor**, and Abbas A. Jawad, "Prediction of Reaction Kinetic of Al-Doura Heavy Naphtha Reforming Process Using Genetic Algorithm" Al-Khwarizmi Engineering Journal, Under publishing (2014).
- **Zaidoon M. Shakor**, Jenan A. AL Najara, Asawer A. Alwasiti , "Comparison between Neural Network and Genetic Algorithm in Prediction Adsorption Capacity of Natural Sorbent", Xth International Statistics Day Conference, University of Giresun, Ordu, Turkey (2016).

Papers Under-Publishing:

- **Ziadoon M. Shakor**, and Mohammed Z. Mohammed, "Reactive Distillation Simulation for MTBE Production".
- Safa A. Al-Naimi , **Zaidoon M. Shakor**, and Huda Aamer , "Simulation and Optimization of Ethane Cracking Process Using ASPEN PLUS and MATLAB".

Invited Lectures and Seminars

- Seminar Title "Application of genetic algorithm in optimization and parameters estimation of various chemical engineering systems", Chemical engineering Department, University of Technology.

Conferences and Training

- Tikrit First Chemical Engineering Conference, Iraq, Tikrit University.
- Tikrit Second Chemical Engineering Conference, Iraq, Tikrit University.
- Second Scientific Conference for Engineering Universities, Iraq, Al-Qadisia, (2009).
- First Scientific Conference on Modern Technologies in Oil & Gas Refining, University of Technology – Iraq (2011)
- The Sixth Jordan International Chemical Engineering Conference (JIChec 06), Amman-Jordan.
- Second Scientific Conference on Modern Technologies in Oil Refining (MTOR 2013), Iraq, Baghdad (14-15 may 2013).
- Modern refineries in twenty-first century Seminar, Iraq, Diwaniya University (2014).
- Xth International Statistics Day Conference, University of Giresun, Ordu, Turkey (2016).