

Curriculum Vitae



1-Personal Information

Name :Safa Aldeen A. Al-Naimi
Affliction :alnaimi545@yahoo.com
(Included Phone and Email)
Date of Birth :1954
Place of Birth :Baghdad
Nationality :Iraqi
Marital Status :Married

2-Scientific Rank : Professor

3-Research Interests

- Process control
- Numerical application in chemical industry

4-Education

(List your academic background, including undergraduate and graduate institutions attended)

Date	Discipline	Degree	Institution	Thesis Title
1976	Chem. Eng.	B.Sc.	Univ. of Baghdad	
1980	Chem. Eng.	M.Sc	Univ. of wales-UK	Control of chemical reactor
1986	Chem.Eng.	Ph.D	Univ. of wales-UK	On line control of distillation column

5-Postdoctoral Training (if available)

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6-Management Posts (if available)

(List in chronological order, included position details and dates)

- Dean of Hadhramout Eng. College-Yemen- 2003
- Head of Metalurgy eng. Dept.-Univ. of technology-2001
- Head of chemical eng. Dept.-univ. of technology-1994
- Ass.head of chem.. eng. Dept.-1987

7-Grants and Fellowships (if available)

- **Grant from Univ. of technology-Baghdad(M.Sc. and Ph.D)1978**

8-Academic Experience

1-Undergraduate Level

- Mathematics- Undergraduate Studies.
- - Applied Mathematics in Chemical Engineering- Undergraduate studies.
- - Basic Principles of Chemical Engineering- Undergraduate Studies.
- - Engineering statistics- Undergraduate Studies.
- - Instrumentation Technology - Undergraduate Studies.
- - Process Control- Undergraduate Studies.
- - Plant Design- Undergraduate Studies.
- - Mass Transfer- Undergraduate Studies.
- - Computer Applications in Chemical Engineering.-Undergraduate Studies.

2-Postgraduate Level

- Process Control- Postgraduate Studies.
- Control System- Postgraduate Studies.
- Numerical Analysis- Postgraduate Studies.
- Nonlinear Mathematics- Postgraduate Studies.
- Optimization - Postgraduate Studies.
- Instrumentations and Control in Petroleum Industry-Postgraduate Studies

9-Employment History (if available)

(Including experience, institution, and data)

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10-License/Certification (if available)

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11-Honors and Distinctions (if available)

- Prof of the year-Chem. Eng. Dept. 2012
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12-Skills and Qualifications (Language and computer)

- Language course in Uk-1986

13-Publications/ Books

1- Supervision

M.Sc Thesis Supervised:

- 1- Effect of System Parameters on Extraction Unit-1988.
- 2- Optimum Control of a Multi -Component Distillation Column-1989.
- 3- Dynamic Heat Transfer of a Packed Column-1990.
- 4- Prediction of Latent Heat of Vaporization-1992.
- 5- Optimum Control of a Chemical Reactor- 1993.
- 6- Effect of Interaction on the Closed-loop System of Multi-Component Distillation Column-1994.
- 7- Fuzzy Logic Control of a Distillation Column-1995.
- 8- Dynamic Behavior of a Cold Trap-1996.
- 9- Optimum Control of a complete plant-1997.
- 10- Fuzzy Logic Control a Chemical Reactor -1998.
- 11- Production of PVB-1999.
- 12- Production of Glucose By a Biochemical Method-2000.
- 13- Production of PVF-2001.
- 14- Multi-Variable Control of a Heat Exchanger-2002.
- 15- Improved chemical instead of cyanide in electrochemical industry2000
- 16- Fault Detection and Diagnoses Of a Chemical Plant Using Neural Network 2003.
- 17- Study of Performance of Liquid Propellant and Determination of Optimum Condition for Complete Combustion-2003.
- 18-Multi-variable Control of a Fluidised Catalytic Cracking Unit – 2007
- 19-Comparative control strategies of a heat exchanger unit-2011
- 20-Neuro-Fuzzy control for methanol recovery distillation column-2012
- 21-Optimization of distillation column using Genetic algorithm-2013
- 22-The transient behaviour of a trickle bed reactor –In progress

23-Optimisation of a complete plant using genetic algorithms-In progress

Ph.D Thesis Supervised:

- 1- On-line Control of a Batch Reactor-1993.
- 2- Optimum Control of a Distillation Column-1995.
- 3- On-line Control of a Continuous Reactor-1999.
- 4- System Parameter Study of a Bubble Column Reactor-2000.
- 5- Prediction of Software Language in Chemical Eng. Calculation Using C++-2001.
- 6- Extraction of Iron from Iron Ore-2002.
- 7- Mathematical Model of Mass Transfer in Chemical Absorption Column-2002.
- 8- A Pilot System for Evaluation of Hot Ash Corrosion Inhibition in Oil-Fired Boiler-2003.
- 9- Enhancing Performance of Trickle Bed by Periodic Operation : Experimental Study and Modeling – 2007
- 10-Removal of Heavy Metals From Aqueous Solution By Biosorption – 2008.
- 11- Dynamic Simulation and Modeling of Batch Azeotropic Distillation Column-2008

2-Research

Under publication

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Accepted Manuscripts

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Published

1. Accurate Model of Dynamic and Control of a Distillation Column, Distillation and Absorption Conference, Brighton 1987.
2. Computer Aided Design for Vapor Liquid Eqm., Eng and Tech.J. 1988.
3. Flow of Solid Particles Through Different Orifices. Eng Tech.J. 1989.
4. Optimum Control of a Plate Type Exchanger. Eng. Tech.J. 1990.
5. Optimum Control a Multi Component Distillations, The Engineer, 1991.
6. The Effect of Random Noise on The Closed-Loop of a Distillation Column, Eng and Tech. 1991.
7. Dynamic Behavior of a Packed-Bed I. Chem. Eng Conference-Jordan,1992.
8. Dynamic Behavior of a Packed-Bed II. Eng. and Tech.J.1993.
9. Effect of Interaction on the Closed Loop of a Distillation Column. Chem. Eng. Conference. Jordan. 1996.
10. Fuzzy Logic Control of a Multi-Component Distillation Column. 2nd. Iraqi

- Technology Conference, 1996.
11. Dynamic Behavior of a Cold Trap. 3rd. Iraqi Technical Conf., 1997.
 12. On-line Control of a Batch Reactor I Eng. And Tech.J. 1997.
 13. Separation of Gases By Desublimation System. 3rd. Iraqi Tech. Conf. 1997.
 14. Fault Detection and Diagnoses of a Flash Drum Using Neural Network, Eng. And Tech.J.1999.
 15. Fault Detection and Diagnoses of a Complete Plant Using Neural Network, Eng. And Tech.J. 1999.
 16. Production of PVF, Chem. Eng Conf., Univ. of Tikrit 2000.
 17. Production of PVB, Eng. And Tech.J. 2002.
 18. Fuzzy Logic Controller of a Chem. Reactor, Eng. And Tech.J. 2000.
 19. On-line Control of CSTR., Eng and Tech.J. 2000.
 20. System Parameter Study of Bubble Column Reactor, Chem. Eng Conf., Univ. of Tikrit 2001.
 21. Extraction of Iron from Iron Ore, Eng. and Tech.J. 2002.
 22. Multi Variable Control of a Heat Exchanger, Intern. Conf. Of Chem. Eng., Jordan 2002.
 23. Mathematical Model of Mass Transfer in Chem. Absorption Column, Eng. And Tech.J. 2002.
 24. The Diffusivity of NaCl Solution in Water, Hadhramout Univ. J , 2006
 25. Multivariable Control Of FCC Unit ,Int. Eng. Conference , Amman, Jordan, 2005
 26. Dynamic Simulation Of Batch Azeotropic Distillation , Eng. And Tech. J , 2006
 27. Mathematical Modeling of Multi Component Batch Extractive Distillation ,Eng. And Tech. J , 2007.
 28. The Inhibitive Action of Magnesium Hydroxide on Hot Ash Corrosion of Stainless Steel in A Kerosene Fired Furnace, First Engineering Scientific Conference, Diyala University, 2010
 29. Decoupling Control of FCC Unit Using Fuzzy Logic, First Scientific Conference for Petroleum Refining and Gas, University of Technology, Iraq , 2011.
 30. Flow Control System Using Fuzzy-Logic Control, First Scientific Conference for Petroleum Refining and Gas, University of Technology, Iraq , 2011.
 31. Modeling and Control of a Continuous Stirred Tank Reactor (CSTR), University of Babylon , Journal of Babylon University, Iraq, 2011.
 32. Hydrodynamic and Flow Regime Transition Study of Trickle Bed Reactor at Elevated Temperature and Pressure, Chemical Eng. Research and Design, 2011.
 33. Comparative Study of Temperature Control in a Heat Exchanger Process, Eng. and Tech. Journal, 2012
 34. Neuro-Fuzzy control for methanol recovery distillation column, Eng. And Tech. Journal, 2012.
 35. Simulation study of mass transfer coefficient in slurry bubble column reactor using Neural network, Al-Khawarizmi eng. Journal,2012
 36. Optimization of demethanizer distillation column using Genetic algorithms, Second scientific conference for petroleum refining and gas technology conference, Univ. of Tech., Baghdad, Iraq, 2013

3-Books

Control System of Fluidized Catalytic Unit (FCCU), LAMBERT Academic Publishing (LAP), 2011 .

14-Invited Lectures and Seminars* (if available)

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15-Conferences and Training (if available)

- Petroleum refinery and gas- Univ. Of Tech.-2013&2012
- Chem. Eng. Conference -2005
- Chem. Eng. Conference -2000
- Distillation Conference UK-1986
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*تملى الاستماره بحسب التسلسل الزمنى من الحديث ثم الاقدم
* كذلك تتضمن جميع دورات التعليم المستمر كمقرر او محاضر او مشارك
* Skills and Qualifications تتضمن الاهتمامات والمهارات الاخرى الغير المذكوره بالاستماره
* License/Certification تتضمن اعضاء اتحاد ونقابات، جمعيات محليه ودوليه
*الكتب تتضمن المؤلفه والمترجمة