



Bahareh Bidar Professor

Faculty : Engineering

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Education

- ✓ B.Sc, Chemical Engineering, Ferdowsi University of Mashhad - 2007
- ✓ MS, Chemical Engineering Processes Design, Sistan and Baluchestan University - 2012
- ✓ PhD, Chemical Engineering, Sistan and Baluchestan University - 2018

Courses

1. workshop on chemical engineering soft wares
2. Numerical calculations
3. Fluid mechanics
4. General chemistry in chemical engineering
5. Material and energy balance
6. differential equations
7. training
8. METHODS OF MEASUREMENT IN MATERIAL ENG AND LAB
9. Gas Compression, Transmission and Distribution
10. Transport Phenomena
11. Heat transfer I
12. fluid mechanics II
13. Advanced Engineering Mathematics
14. workshop on chemical engineering soft wares
15. Mabahees vegeh
16. advanced heat transfer

Master Thesis

1. Investigating the Controllability and the Effect of Flow taken from Ethanizer Column on the Ethanizer and Ethane-Ethylene Separator Columns in the Olefin Unit

محمدعلي جهان نيغ, [Jafar Sadeghi, Bahareh Bidar, Kiyanoosh Razzaghi, Mir mohammad Khalilipour langroudi, Hamed Khosravi]

نيمسال اول سال تحصيلي 1403-1404

2. Investigating effective factors in reducing energy consumption in the calcination process of magnesium carbonate with different purity.

محمد سيادت, [Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar, Hamid Moghadam Deymeh, Davod Mohebbi Kalhori, Ghodratollah Roudini]

نيمسال دوم سال تحصيلي 1401

3. Investigating the effect of surfactants on subcooled pool boiling of pure water

ثريا هاشم زائي, [Farhad Shahraki, Bahareh Bidar, Samane Hamzekhani, Mir mohammad Khalilipour langroudi, Abdolreza Samimi, Hossein Moeinkhah]

نيمسال دوم سال تحصيلي 1401

4. Investigating the Effect of Temperature Changes in Static Naphthalene Refiners to Reduce Residual Naphthalene Oil

فريد كاظمي نورالدين وند, [Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar, Mir mohammad Khalilipour langroudi, Jafar Sadeghi, Mahdi Shafiee Afarani]

نيمسال اول سال تحصيلي 1402-1401

5. Optimization of execution, management of pre-startup operations and start-up operations of area 40 of ethylene production using the Opercom method through ICAPS software

فرهاد ابراهيمي, [Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar, Jafar Sadeghi, Mir mohammad Khalilipour langroudi, Seyed roohallah Mousavi]

نيمسال اول سال تحصيلي 1402-1401

6. feasibility study and simulation of high purity ethylene and propylene recovery from the offgas of fcc unit of Abadan refinery

مجتبي عباس نژاد, [Farhad Shahraki, Bahareh Bidar, Mohammad Reza Sardashti Birjandi, Jafar Sadeghi, Mortaza Zivdar, Hamed Khosravi]

نيمسال دوم سال تحصيلي 00-01

7. The evaluation and simulation of ammonia removal methods from industrial wastewater

اميرمسعود وارث, [Bahareh Bidar, Vajihe Yousefi, Mortaza Zivdar, Mohammad Reza Sardashti Birjandi, Seyed Amirasad Fatemi]

نيمسال اول سال تحصيلي 00-01

8. Simulation and evaluation of the emission consequences of H₂S toxic gas in the sulfur recycling unit of Abadan refinery using PHAST software

توحيد دلشاد, [Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar]

نيمسال دوم سال تحصيلي 99-00

9. modeling and optimization of desalter unit Abadan refinery

فائزه ريگي, [Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar]

نيمسال اول سال تحصيلي 99-00

10. soft sensor design using multi-state dependent parameter methodology based on generalized random walk method

فرشته توکلي دستجرد, [Jafar Sadeghi, Farhad Shahraki, Mir mohammad Khalilipour langroudi, Bahareh Bidar]

نيمسال دوم سال تحصيلي 98-99

11. energy analysis and economic assessment of gas turbine plant in combination with solar power plant and combind cycle

حافظ نوري كتج, [Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar]

نيمسال اول سال تحصيلي 98-99

Journals Papers

2025

1. Evaluation of Ammonia Removal from Industrial Wastewater Using Air Stripping and Wet Air Oxidation Methods

Amirmasoud Vares, Bahareh Bidar, Vajihe Yousefi

Volume: (20) 35 - 56

2. A Consequence Analysis of a Hydrogen Sulfide Gas Release using PHAST Software in the Sulfur Recovery Unit of Abadan Oil Refinery Company

Towhid Delshad, Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar

Journal of Health and Safety at Work Volume: (15) 932 - 959

3. Investigation of Effective Factors in Reducing Energy Consumption of Magnesium Carbonate Calcination Process

Mohammad Siyadat, Farhad Shahraki, Bahareh Bidar, Mohammad Reza Sardashti Birjandi

Volume: (24) 79 - 98

2024

4. Design of Data-Driven Soft Sensor for Quality Prediction in Industrial Polyester Resin Production Process

Gohar Hadizadeh, Jafar Sadeghi, Mir mohammad Khalilipour langroudi, Bahareh Bidar

Volume: (6) 97 - 114

5. Modeling of an Industrial Incinerator for Refinery Wastes and Investigating the Effective Parameters for Performance Improvement

Mohsen Bahoosh, Bahareh Bidar, Mohammad Reza Sardashti Birjandi, Farhad Shahraki

Volume: (22) 103 - 122

6. Enhanced Monitoring of Water Quality in Crude Oil Desalting/Dehydration Plant (DDP) using Soft Sensing Techniques

Farzane Naimirad, Mir mohammad Khalilipour langroudi, Bahareh Bidar, Farhad Shahraki, Jafar Sadeghi

Pollution Volume: (11) 175 - 190

2023

7. Simulation and Evaluation of Effective Solutions in Reducing Mercaptan and Sulfur in Liquid Gas Exit in Sulforex Unit

Mehdi Hamedi Siam, Farhad Shahraki, Mohammad Reza Sardashti Birjandi, Bahareh Bidar, Mohammad Esmaei

Volume: (18) 46 - 66

8. SDP-Based Quality Monitoring with Application to the Tennessee Eastman Process (TEP)

, Mir mohammad Khalilipour langroudi, Jafar Sadeghi, Bahareh Bidar

JOURNAL OF CONTROL Volume: (17) 77 - 91

9. Tail Gas Quality Warning System in a Sulfur Recovery Unit based on H₂S and SO₂ Concentration Soft Sensor utilizing Multi-State-Dependent Modeling Method

Fereshte Tavakoli dastjerd, Farhad Shahraki, Jafar Sadeghi, Mir mohammad Khalilipour langroudi, Baha
international journal of industrial electronics, control and optimization Volume: (6) 307 - 319

10. Simulation and Investigation of H₂S Adsorption Effects by Molecular Sieve 4A for Separation from Natural Gas

Aqil Khodabakhsh, Bahareh Bidar, Mohammad Reza Sardashti Birjandi, Farhad Shahraki

Volume: (15) 25 - 39

2022

11. Soft Sensor Design Using Multi-State Dependent Parameter Methodology Based on Generalized Random Walk Method

Fereshte Tavakoli dastjerd, Jafar Sadeghi, Farhad Shahraki, Mir mohammad Khalilipour langroudi, Baha
IEEE SENSORS JOURNAL Volume: (22) 7888 - 7901

2021

12. Soft Sensor Development for Monitoring ASTM-D86 Index: Effect of Feed Flow Rate Change

Bahareh Bidar, Mir mohammad Khalilipour langroudi, Farhad Shahraki, Jafar Sadeghi
international journal of industrial electronics, control and optimization Volume: (4) 211 - 220

13. Simulation and Performance Improvement of Mercaptan Removal Unit of South Pars Gas Company by designing a new process cycle

Reza Seyed abadi, Bahareh Bidar, Mohammad Reza Sardashti Birjandi, Farhad Shahraki

Volume: (13) 17 - 36

Conferences Papers

2025

1. Quality Assessment in Chemical and Mineral Industries: A Brief Review of Advances in Soft Sensor Models

2023

2. Soft Sensor Design of A Carbon Dioxide Absorption Unit Based on State-Dependent Parameter Model

4th International Conference New Technologies in Oil, Gas and Petrochemical Industries

Fereshte Tavakoli dastjerd, Jafar Sadeghi, Farhad Shahraki, Mir mohammad Khalilipour langroudi, Bahareh Bidar

3. Optimization of Sulfur Recovery Unit of Abadan Refinery using Response Surface Method (RSM)

The 12th International Chemical Engineering Congress Exhibition (IChEC 2023)

, Bahareh Bidar, Mohammad Reza Sardashti Birjandi, Farhad Shahraki

4. Improving the Process Performance of the Reverse Osmosis (RO) Unit of Abadan Oil Refinery by Changing the Membrane

The 12th International Chemical Engineering Congress Exhibition (IChEC 2023)

, Bahareh Bidar, Mohammad Reza Sardashti Birjandi, Farhad Shahraki

2021

5. A Data-driven Soft Sensor for Estimation Viscosity in Batch Process Production of Polyester Resin

Gohar Hadizadeh, Jafar Sadeghi, Mir mohammad Khalilipour langroudi, Bahareh Bidar

2020

6. Quality Soft Sensor Design for Crude Oil Desalting/Dehydration Unit Using Local Instrumental Variable (LIV) Approach

The 11th International Chemical Engineering Congress Exhibition (IChEC 2020)

Bahareh Bidar, Farzane Naimirad, Mir mohammad Khalilipour langroudi, Farhad Shahraki, Jafar Sadeghi

2011

7. Energetic-Exergetic Analysis and Exergy Loss Evaluation in Combined Heat and Power Systems in South Pars Gas Complex

7th International Chemical Engineering Congress Exhibition (IChEC 2011)

Bahareh Bidar, Farhad Shahraki

Executive activities

مشاوره دانشجویان کارشناسی

from 1404/07/01 - to 1404/11/08

مدیر مرکز رشد

from 1403/10/08 - now

فرصت مطالعاتی سپمان خاش

from 1402/05/01 - to 1402/10/30

مدیر اجرایی مجله پژوهشی chemical process design

from 1401/12/09 - to 1404/05/01