

Mortaza Zivdar
Professor

Faculty : Engineering

Departments : chemical engineering

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Education

- B.Sc, , - 1988
- MS, Chemical Enginering Processes Design,Amirkabir University of Technology - 1992
- PhD, Chemical Enginering Processes Design,Ausralia - 1998

Courses

1. engineering design economics
2. menbranes and membrane processes
3. advanced numerical computation
4. scale - up in chemical engineering
5. Gas transmission and distribution
6. predict the thermodynamic properties

Master Thesis

1. Mass trasfer efficiency of structured packing by CFD analysis

پريسا دانشگر, [Mortaza Zivdar, Rahbar Rahimi]

نيمسال اول سال تحصيلي98-99

2. investigation on increacing the thermal diffusion coefficient of tire bakeing blend wjth heat conductor fillers

الهام اسماعيلي, [Mortaza Zivdar,]

نيمسال اول سال تحصيلي98-99

3. feasibility of high pressure natural gas transmission

سحر نوري, [Mortaza Zivdar]

نيمسال اول سال تحصيلي98-99

4. H2S

سيدعبدالمجيد خاکسار, [Rahbar Rahimi, Mortaza Zivdar]

نيمسال اول سال تحصيلي94-95

Journals Papers

2022

1. New design and optimization of an industrial three-phase boot separator using the coupled CFD-RSM models

Zohreh Khalifat, Mortaza Zivdar, Rahbar Rahimi

BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING Volume: (39) 583 - 599

2. Murphree vapor efficiency prediction in SCC columns by computational fluid dynamics analysis

Mortaza Zivdar,

Chemical Product and Process Modeling Volume: (17) 273 - 292

2021

3. Investigating the Natural Gas Transmission in Supercritical Condition

Mortaza Zivdar, Moslem Abrofarakh

Volume: (20) 50 - 63

4. Natural Gas Transmission in Dense Phase Mode

Mortaza Zivdar, Moslem Abrofarakh

Journal of Gas Technology Volume: (7) 45 - 52

2020

5. Simulation of an Industrial Three Phase Boot Separator Using Computational Fluid Dynamics

Zohreh Khalifat, Mortaza Zivdar, Rahbar Rahimi

Journal of Gas Technology Volume: (6) 30 - 42

2019

6. Investigation on the Catalytic Conversion of Hydrogen Sulfide to Methyl Mercaptan as a Novel Method for Gas Sweetening Experimental and Modeling Approaches

Seyedabdolmajid Khaksar, Mortaza Zivdar, Rahbar Rahimi

Journal of Natural Gas Science and Engineering Volume: (61) 97 - 105

7. CFD Modeling to Predict Mass Transfer in Multicomponent Mixtures

, Rahbar Rahimi, Mortaza Zivdar, Mohammad Kalbassi

Chemical Product and Process Modeling Volume: (14) 1 - 15

8. Application of CFD for Troubleshooting and Hydrodynamic Analysis in an Industrial Three-Phase Gravity Separator

Zohreh Khalifat, Mortaza Zivdar, Rahbar Rahimi

Journal of Gas Technology Volume: (5) 57 - 75

9. Preparation and characteristics' evaluation of zeolite/activated carbon composite granules, using high shear mixer granulator

Elham Narooei, Davod Mohebbi Kalhori, Abdolreza Samimi, Mortaza Zivdar

Materials Research Express Volume: (6) 125532-1 - 125532-12

10. A comparative study of the effect of compost/woodchips mixture, natural zeolite and zeolite/activated carbon mixture as packing materials on the biofilter performance

Elham Narooei, Davod Mohebbi Kalhori, Abdolreza Samimi, Mortaza Zivdar

Advances in Environmental Technology Volume: (5) 67 - 75

11. A Green Route for Wasted Sulfur Consumption: Kinetic Modelling of Methyl Mercaptan Synthesis from Refinery H2S Streams over the K2Wo4/Al2O3 Catalyst

Seyedabdolmajid Khaksar, Mortaza Zivdar, Rahbar Rahimi

Advances in Environmental Technology Volume: (5) 213 - 219

2018

12. Response surface methodology in optimization of a divided wall column

, Rahbar Rahimi, Mortaza Zivdar

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (35) 1414 - 1422

13. CFD modeling of multiphase flow in reactive distillation column

Maryam Mazarei sotoodeh, Mortaza Zivdar, Rahbar Rahimi

CHEMICAL ENGINEERING AND PROCESSING Volume: (129) 1 - 9

14. Hydrodynamic study of different configurations of sieve trays for a dividing wall column by using experimental and CFD methods

, Rahbar Rahimi, Mortaza Zivdar

CHEMICAL ENGINEERING AND PROCESSING Volume: (129) 162 - 170

15. New Design and Optimization for Replacing Dimethyl Disulfide with Wasted Disulfide Oil in Olefin Furnaces

Erfan Ziarifar, Rahbar Rahimi, Mortaza Zivdar

ENERGY and FUELS Volume: (32) 11375 - 11382

16. Pressure drop in randomly packed absorption tower in transient Flow regime

, Rahbar Rahimi, Mortaza Zivdar

Journal of Gas Technology Volume: (3) 38 - 47

17. Using disulfide oil as coke inhibitor to reduce environmental hazards in olefin heaters

Erfan Ziarifar, Rahbar Rahimi, Mortaza Zivdar

Advances in Environmental Technology Volume: (4) 183 - 186

2017

18. CFD Simulation of Dry and Wet Pressure Drop and Flow Patern in Catalytic Structured Packings

Maryam Mazarei sotoodeh, Mortaza Zivdar, Rahbar Rahimi

Journal of Chemical and Petroleum Engineering Volume: (51) 27 - 37

2015

19. Modeling and Simulation of a Divided Wall Column for 1,3 Butadiene Purification

Rahbar Rahimi, , Mortaza Zivdar, ,

Iranian Journal of Chemical Engineering Volume: (12) 60 - 67

20. Modeling and Simulation of a DividedWall Column for 13 Butadiene

Rahbar Rahimi, Mohamad Soudmand, Mortaza Zivdar, ,

Iranian Journal of Chemical Engineering Volume: (12) 60 - 67

2013

21. Hydrodynamic characteristic of conical cap tray experimental studies on dry and total pressure drop weeping and entrainment

Rahbar Rahimi, Mortaza Zivdar

CHEMICAL ENGINEERING AND PROCESSING Volume: (64) 17 - 23

22. CFD simulation of concap tray hydrodynamics

, Rahbar Rahimi, taleb zarei, Mortaza Zivdar

Journal of Chemical and Petroleum Engineering Volume: (47) 39 - 50

2010

23. Unsteady state simulation of bubbling fluidized bed by CFD

Seyyed Hossein Hosseini, Rahbar Rahimi, Mortaza Zivdar, Abdolreza Samimi

Volume: (21) 13 - 30

24. CFD studies of solids hold-up distribution and circulation patterns in gas-solid

Seyyed Hossein Hosseini, Goodarz Ahmadi, Rahbar Rahimi, Mortaza Zivdar, Mohsen Nasr Esfahany

POWDER TECHNOLOGY Volume: (200) 202 - 215

2009

25. Computational fluid dynamic simulation of MVG tray hydraulics

Taleb Zarei, Rahbar Rahimi, Mortaza Zivdar

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (26) 1213 - 1219

26. CFD simulation of gas-solid bubbling fluidized bed containing FCC particles

, Rahbar Rahimi, Mortaza Zivdar, Abdolreza Samimi

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (26) 1405 - 1413

27. Numerical Simulation of Hydrodynamics parameters of the Packed Columns Effects of Geometrical Characteristics on Pressure Drop

masoud haghshenas, Mortaza Zivdar, Rahbar Rahimi,

WORLD APPLIED SCIENCES JOURNAL Volume: (11) 1439 - 1445

Conferences Papers

2022

1. Simulation and Control of C9-C10 Aromatics Splitter Column of Bouali Sina Petrochemical Company

The 12th international conference Distillation & Absorption 2022

Mortaza Zivdar, Seyed morteza Mirhosseini, Mohammad amin Mokhtari, M. Abdollahi

2021

2. CFD analysis of a de-humidifier unit

3rd international Congress on Water Desalination

SHAHABUDIN KHORSHIDI, Mohammad amin Mokhtari, Mortaza Zivdar

2020

3. Separation of Ziziphora Essence by Organic and Acidic Solvents

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

Morteza Fanoudi, Mortaza Zivdar, M. Taghi Goldani

2019

4. Hydrodynamic Analysis of Three-phase Industrial Boot Separator

Zohreh Khalifat, Mortaza Zivdar, Rahbar Rahimi

2018

5. CFD Study of 11 Diethoxy Butane Production in a Reactive Distillation Column

The 10th International Chemical Engineering Congress and Exhibition.

Maryam Mazarei sotoodeh, Mortaza Zivdar, Rahbar Rahimi

6. Experimental and CFD investigation for predicting weeping from sieve trays of Divided Wall Column

2nd International Biennial Oil, Gas and Petrochemical Conference

, Rahbar Rahimi, Mortaza Zivdar

7. Effects of flow direction on a sieve tray of Divided Wall Column

2nd International Biennial Oil, Gas and Petrochemical Conference

, Rahbar Rahimi, Mortaza Zivdar

2005

8. Evaluation of Mass-Transfer Characteristics of a Structured Packing for Production and Separation of Food Flavours

7th world congress of chem eng. 2005

Mortaza Zivdar

Executive activities

مدیر گروه

from 1398/04/04 - to 1400/06/20

معاون آموزشي دانشكده مهندسي

from 1395/07/01 - to 1397/06/23

Research Project

2017

1. Investigation of the Optimum Method for Determination of Oil- Gas Minimum Miscibility Pressure in En

Mortaza Zivdar, - 2017

2002

2. Modeling and simulation of spinning cone columns for production of food flavors

Mortaza Zivdar, Rahbar Rahimi - 2002