Ali Sufali - Résumé

Address Institute of Petroleum Engineering (IPE),

University of Tehran, Tehran, Iran

Date of Birth 2^{nd} September 1996

Nationality Persian

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Personal Profile

Reservoir engineer, PVT Specialist and Programmer with 3+ years of experience in PVT simulations and Computational Fluid Dynamics (CFD) and 5+ years of experience in writting scientific programs, Looking to use my skills and experiences in developing and building accurate, robust and efficient simulation codes.

Education

2020-Now PhD. in Reservoir Engineering - University of Tehran, Tehran

Straight Student (Using Educational Background)

Average Score 18.70 / 20

2018-2020 M.Sc. in Reservoir Engineering - University of Tehran, Tehran

Straight Student (Using Educational Background)

Average Score 17.92 / 20

2014-2018 B.Sc. in Reservoir Engineering - Shiraz University, Shiraz

Third Position in The Class (Among 69 Students)

Average Score 18.12 / 20

Researches and Experiences

Project Molecular Dynamics Simulation of Oil Detachment from Calcite Surface

As My M.Sc. Thesis

Used Gaussian and GROMACS for simulations and Python Scripts to analyze and visualize outputs.

A.Sufali, S.Riahi, M.Vaezalaei November 2019 - September 2020

Project Developing streamline simulator with GUI.

Supporting incompressible flow for water/oil 2-phase calculations. M.Siavashi, A.Sufali, M.Hosseini, M.Tahmasebi, S.Roshandel, S.Hosseini, M.Sharifi, H.Khoshtarash, H.Mohammadiha

November 2020 - September 2021

Project Writting a PVT flash calculation program for simulaiting 2-phase equilibrium problem.

Phase Equilibrium Flash Calculations (2-Phase) using PR and SRK EOS

with the ability to draw Phase Envelope

Based on the Successive Substitution (S.S.) method

A.Sufali June 2019 Link

Paper Exploring pH dependent delivery of 5-fluorouracil from functionalized multi-walled carbon nanotubes.

Journal of Colloids and Surfaces B: Biointerfaces (Impact Factor: 4.389),

A.Solhjoo, Z.Sobhani, A.Sufali, Z.Rezaei, S.Khabnadideh, A.Sakhteman,

September 2021

Link

Paper Natural Fracture Description using Mud-Loss Data - ...

Scientific- Propagative Journal of Oil and Gas Exploration and Production,

M.Ghaedi, A.Sufali, M.Massah,

April 2020 Link

Patent Gas/Water Production Prevention Valve (RCP Valve).

A bottom hole valve which works mechanically and prevents (or lowers) water and gas production,

P.Talkab, A.Sufali, A.Ghamartale, M.Massah, H.Yavari, M.Eschrochi, M.Riazi,

Patent Code: ir 139650140003007630.

August 2017

Link

Project Design and manufacture of Automated Intelligence Control Valve to decrease producing gas oil ratio.

Design and manufacture of an AICV to control gas flow,

With the Support of Premier Idea Support Center of Shiraz University., P.Talkab, A.Sufali, A.Ghamartale, M.Massah, H.Yavari, M.Eschrochi, M.Riazi,

August 2017

Software Skills

Computational Chemistry Skills

GROMACS, LAMMPS, OPENMM - Molecular Dynamics Simulators Gaussian, Quantum-Espresso - Quantum Mechanics Simulators PyMol, VMD - Molecular Visualization Softwares

Programming Skills

Python, C/C++, Fortran, MATLAB - Programming Languages PyQt5, Qt5, Kivy, Tkinter - Graphical User Interface (GUI) Frameworks Git - Source Version Control (SVC) CMD and Bash Scripting - OS Scripting

Simulation Skills

Ansys Fluent, COMSOL Multiphysics - Computational Fluid Dynamics Simulators Schlumberger Eclipse - Reservoir Simulator Schlumberger Pipesim and OLGA - Well Multiphase Flow Simulator

Miscellaneous

Microsoft Windows, Linux Ubuntu - Operating Systems Microsoft Office, PT_PX - Typescripting and Office

Language Skills

■ Persian: Native, Professional

■ English: Professional

Interests

- Molecular Dynamics Simulation
- Quantum Calculations
- Computational Fluid Dynamics
- Multiphase Flow in Porous Media and Well

- **Reservoir Simulation**
- PVT and Phase Equilibria Simulation
- Well Flow Control Devices

Honors and Awards