



Petroleum University of
Technology

In the Name of God

IRANIAN JOURNAL OF OIL & GAS SCIENCE AND TECHNOLOGY (IJOGST)

Vol. 7, No. 3, Summer 2018

ISSN: 2345-2412

Director in Charge

Abdonabi Hashemi
Petroleum University of Technology

Editor in Chief

Seyed Reza Shadizadeh
Petroleum University of Technology

Executive Manager

Mohammad Reza Khosravi Nikou
Petroleum University of Technology

Executive Assistant

Ensieh Ebrahimpour
Petroleum University of Technology

Language Editor

Mohammad Najafi
University of Tehran

Editorial Board

Ehsani, Mohammad Reza, Professor at Isfahan University of Technology
Gerami, Shahab, Associate Professor at IOR Research Institute
Ghorbani, Davood, EOR Expert at Sr Reservoir Engineer at Denbury Resources
Kadkhodaie, Ali, Associate Professor at Australia Curtin University/Tabriz University
Kharrat, Riyaz, Professor at Petroleum University of Technology
Khosravi Nikou, M. R., Associate Professor at Petroleum University of Technology
Masihi, Mohsen, Professor at Sharif University of Technology
Najibi, Seyed Hesam, Professor at Petroleum University of Technology
Rashidi, Alimorad, Professor at Research Institute of Petroleum Industry (RIPI)
Rezaee, Reza, Professor at Department of Petroleum Engineering, Curtin University
Riahi, Mohammad Ali, Professor at Tehran University
Salahshoor, Karim, Professor at Petroleum University of Technology
Thonhauser, Gerhard, Professor at Montanuniversität Leoben-Austria
Tamimi, Naser, Geophysics Expert at Colorado School of Mines, USA
Yassaghi, Ali, Associate Professor at Tarbiat Modares University

Iranian Journal of Oil & Gas Science and Technology (IJOGST) is published quarterly by Petroleum University of Technology (PUT). Manuscripts should be submitted online to the journal website at <http://ijogst.put.ac.ir>.

All correspondence must be directed to **Petroleum University of Technology**.

Address:., North Bowardeh, Abadan, Khuzestan, Iran, P.O. Box: 619

Telefax: +98 61 5333 2628;

Email: ijogst@put.ac.ir;

Website: <http://ijogst.put.ac.ir>

TABLE OF CONTENTS

Capability of the Stochastic Seismic Inversion in Detecting the Thin Beds: a Case Study at One of the Persian Gulf Oilfields	01-17
M. Zare, A. Javaherian , M. Shabani	
Effects of pH and Temperature on Oilfield Scale Formation	18-31
J. Azizi, S. R. Shadizadeh, A. Khaksar Manshad, N. Jadidi	
Advanced Analysis of Dew Point Control Unit of Hybrid Refrigeration Systems in Gas Refineries	32-52
M. Afshar , h. rad	
Prediction of the Products Yield of Delayed Coking for Iranian Vacuum Residues	53-64
F. Torabi Esfahani, J. Ivakpour , M.R. Ehsani	
Using a novel method for random noise reduction of seismic records	65-72
M. Bagheri, M. A. Riahi	
Application of an Adaptive Neuro-fuzzy Inference System and Mathematical Rate of Penetration Models to Predicting Drilling Rate	73-100
H. Yavari, M. Sabah, R. Khosravanian, D. A Wood	
Persian Abstracts	101-106

Name of Reviewers

Adloo, Hadi	Jafari, Taraneh	Mohebbi, Vahid
Alizadeh, Bahram	Jamshidi, Saeid	Najibi, Seyed Hesam
Aminshahidy, Babak	Kadkhodaei, Ali	Ramezanzadeh, Ahmad
Bandarian, Reza	Khaksar Menshad, Abbas	Rashidi, Alimorad
Ehsani, Mohammad Reza	Kharrat, Riyaz	Riahi, Mohammad Ali
Farhadi, Alireza	Khazali, Alireza	Rostami, Bezaad
Fattahi, Moslem	Khosravi Nikou, Mohammad Reza	Shadizadeh, Seyed Reza
Gerami, Shahab	Kord, Shahin	Sobati, Mohammad Amin
Haghshenasfard, Masoud	Masihi, Mohsen	Yassaghi, Ali
Hashemi, Abdolnabi	Mohebbian, Reza	Zargar, Ghasem