



Petroleum University of
Technology

In the Name of God

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

Vol. 3, No. 1, Winter 2014

ISSN: 2345-2412

Director in Charge

Gholamreza Rashed

Petroleum University of Technology

Editor in Chief

Riyaz Kharrat

Petroleum University of Technology

Executive Manager

Mohammad Reza Khosravi Nikou

Petroleum University of Technology

Executive Assistant

Ebrahimpour Ensieh

Petroleum University of Technology

Editorial Board

Ehsani, Mohammad Reza, Professor at Isfahan University of Technology

Masihi, Mohsen, Associate Professor at Sharif University of Technology

Najibi, Seyed Hesam, Associate Professor at Petroleum University of Technology

Riahi, Mohammad Ali, Associate Professor at Tehran University

Salahshoor, Karim, Associate Professor at Petroleum University of Technology

Shadizadeh, Seyed Reza, Associate Professor at Petroleum University of Technology

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: Petroshimi Sq., Bereim, Abadan, Khuzestan, Iran, P.O. Box: 63146-61118

Tel: +98 631 333 8957; **Fax:** +98 631 333 8957; **Email:** ijogst@put.ac.ir; **Website:** <http://ijogst.put.ac.ir>

TABLE OF CONTENTS

Comparing Geostatistical Seismic Inversion Based on Spectral Simulation with Deterministic Inversion: A Case Study	01-14
H. R. Ansari, R. Motafakkerfard, and M. A. Riahi	
<hr/>	
An Investigation of Abnormal Fluid Pressure within an Evaporitic Cap Rock in the Gavbandi Area of Iran and its Impact on the Planning of Gas Exploration Wells	15-21
M. Najafi, A. Yassaghi, A. Bahroudi, J. Vergés, and Sh. Sherkati	
<hr/>	
An Estimation of Wave Attenuation Factor in Ultrasonic Assisted Gravity Drainage Process	22-33
B. Keshavarzi, M. J. Shojaei, M. H. Ghazanfari, and C. Ghotbi	
<hr/>	
The Generalized Maxwell-Stefan Model Coupled with Vacancy Solution Theory of Adsorption for Diffusion in Zeolites	34-40
S. M. Salehi and M. R. Rahimi	
<hr/>	
Effect of Molar Ratio and Resin Modification on the Protection Properties of Zinc-rich Alkali Silicate Primer	41-53
I. Mirzaie Goodarzi, M. Farzam, M. R. Shishesaz, and D. Zaarei	
<hr/>	
Resonance Ultrasonic Spectroscopy of a Nanofibrous Composite and Studying the Effect of Surface/Interface	54-64
K. Kalvandi and S. Sodagar	

Name of Reviewers

Anvaripour, Bagher	Helalizadeh, Abbas	Rashed, Gholamreza
Asghari, Omid	Jamshidi, Saeed	Riahi, Mohammad Ali
Ayatollahi, Mohammad Sadegh	Kamali, Mohammadreza	Rostami, Behzad
Danaee, Iman	Kadkhodaei, Ali	Sadri, Maryam
Dezfoulian, Mohammadamin	Kharrat, Riyaz	Salahshoor, Karim
Dehghnian, Changiz	Khosravi Nikou, Mohammad Reza	Salem, Amin
Ehsani, Mohammad Reza	Kord, Shahin	Shadizadeh, Seyed Reza
Emamzadeh, Abolghasem	Mansouri, Mehrdad	Shahbazian, Mahdi
Fanaei Sheikh el eslami, Mohammad Ali	Manzari, Mehrdad	Shahbazi, Khalil
Farhadi, Asadollah	Masihi, Mohsen	Shariati, Ahmad
Farzam, Mansour	Moghadas, Jamshid	Shishesaz, Mohammadreza
Gerami, Shahab	Mohebbi, Vahid	Sodagar, Sina
Ghassem Askari, Mohammad Kamal	Moradi, Siyamak	Soleymanzadeh, Aboozar
Ghazanfari, Mohammad Hossein	Najibi, Seyed Hesam	Takasi, Mohammad Ali
Hashemi, Abdolnabi	Nazar Hossein Saber, Iraj	Varaminian, Farshad
Hashemi, Seyed Jalal	Nikmanesh, Soudabeh	Vossoughi, Manouchehr
Hamoule, Toubia	Pishvaei, Mahmoud	Zargar, Ghasem