



Submissions

Review: NUMERICAL METHODS FOR SOLVING IMPROPER PROBLEMS OF FILTRATION THEORY

1. Request

2. Guidelines

3. Download & Review

4. Completion

Request for Review

You have been selected as a potential reviewer of the following submission. Below is an overview of the submission, as well as the timeline for this review. We hope that you are able to participate.

Article Title

NUMERICAL METHODS FOR SOLVING IMPROPER PROBLEMS OF FILTRATION THEORY

Abstract

This paper is devoted to the development and investigation of methods of mathematical and computer simulation of the process of fluid filtration in a porous medium. The methods of numerical solution of the problems of the filtration theory of build-up of conditions in the catchment and discharge areas boundaries, identification of filtration-capacitive parameters of the effective formation and determination of free (unknown) boundaries and creation of computational algorithms for analysis and forecast of technological indicators of oil and gas fields are considered. Methods and models of continuum mechanics, filtration theories, and methods for solving ill-defined problems, numerical modeling and computer programming were used. Approximate methods for solving direct and inverse problems of filtration theory, mathematical models for single-phase isothermal filtration of a gas mixture in a horizontal formation at small concentration gradients of components, studying the properties of self-similar solutions, as well as numerical solving the problem of identifying the capacitive parameters of the water-bearing stratum.

Review Type

Double-blind

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Review Schedule

2020/08/14

Editor's Request

2020/08/25

Response Due Date

2020/09/15

Review Due Date

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Submissions

Review: NUMERICAL METHODS FOR SOLVING IMPROPER PROBLEMS OF FILTRATION THEORY

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	150262-1	Other, Figure 3_Статья Шаждекеева Н..JPG	2020/08/11	Other
	150263-1	Other, Figure 4_Статья Шаждекеева Н..JPG	2020/08/11	Other
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	150265-1	Article Text, Статья Шаждекеева Н. 29.06.2020_Journal of Applied Engineering Science.docx	2020/08/11	Article Text
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Review

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For author and editor

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Dear Editor in Chief of Journal of Applied Engineering Science - JAES

I have reviewed the manuscript of article with the title "Numerical Methods for Solving Improper Problems of Filtration Theory".

All of my comments are in the manuscript.

Please find attached here the revised manuscript.

For editor only

Upload

Upload files you would like the editor and/or author to consult, including revised versions of the original review file(s).

Reviewer Files

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Submissions

Review: *NUMERICAL METHODS FOR SOLVING IMPROPER PROBLEMS OF FILTRATION THEORY*[1. Request](#)[2. Guidelines](#)[3. Download & Review](#)[4. Completion](#)

Review Submitted

Thank you for completing the review of this submission. Your review has been submitted successfully. We appreciate your contribution to the quality of the work that we publish; the editor may contact you again for more information if needed.

Review Discussions

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Muhammad Faizal <muhammadfaizal@unsri.ac.id>

[JAES][ID 27897] Article Review Request

3 pesan

SCIndeks Asistent <ceoncees@gmail.com>

14 Agustus 2020 22.21

Kepada: Muhammad Faizal <muhammadfaizal@unsri.ac.id>

Dear Muhammad Faizal,

I believe that you would serve as an excellent reviewer of the manuscript, "Numerical Methods for Solving Improper Problems of Filtration Theory," which has been submitted to Journal of Applied Engineering Science. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal web site by 2020-08-25 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation.

The review itself is due 2020-09-15.

Submission URL: <https://aseestant.ceon.rs/index.php/jaes/reviewer/submission?submissionId=27897&reviewId=38814&key=PM7253d8>

"Numerical Methods for Solving Improper Problems of Filtration Theory"

Abstract

This paper is devoted to the development and investigation of methods of mathematical and computer simulation of the process of fluid filtration in a porous medium. The methods of numerical solution of the problems of the filtration theory of build-up of conditions in the catchment and discharge areas boundaries, identification of filtration-capacitive parameters of the effective formation and determination of free (unknown) boundaries and creation of computational algorithms for analysis and forecast of technological indicators of oil and gas fields are considered. Methods and models of continuum mechanics, filtration theories, and methods for solving ill-defined problems, numerical modeling and computer programming were used. Approximate numerical methods for solving direct and inverse problems of filtration theory, mathematical models for single-phase isothermal filtration of a gas mixture in a horizontal formation at small concentration gradients of components, studying the properties of self-similar solutions, as well as numerical solving the problem of identifying the capacitive parameters of the water-bearing stratum.

Thank you for considering this request.

Prof. Dr Gradimir Danon
Editor in Chief

Journal of Applied Engineering Science - JAES www.engineeringscience.rs

Ovaj mejl je poslat sa sistemskog naloga. Ako želite da odgovorite na njega, molimo Vas da koristite sledeću adresu e-pošte:

This e-mail is sent from system account. To reply, please use the following e-mail address:

"Prof. Dr Gradimir Danon"

gdanon@ipp.rs

Muhammad Faizal <muhammadfaizal@unsri.ac.id>

16 Agustus 2020 03.19

Kepada: SCIndeks Asistent <ceoncees@gmail.com>

Dear Prof. Dr Gradimir Danon
Editor in Chief of Journal of Applied Engineering Science - JAES

Thank you for the trust that has been given to me to review the article with the title "Numerical Methods for Solving Improper Problems of Filtration Theory"

I am willing to review the draft of the article, and I will submit the results of the review as soon as possible before the

deadline of submitting the results of the review.
Thank you again for trusting me.

Best regards,

Dr. Muhammad Faizal

Assoc. Professor

Chemical Engineering Department,

Faculty of Engineering

Sriwijaya University

INDONESIA

[Kutipan teks disembunyikan]

Muhammad Faizal <muhammadfaizal@unsri.ac.id>
Kepada: SCIndeks Asistent <ceonces@gmail.com>

16 September 2020 01.07

Dear Prof. Dr Gradimir Danon
Editor in Chief of Journal of Applied Engineering Science - JAES

I have reviewed the manuscript of article with the title "Numerical Methods for Solving Improper Problems of Filtration Theory"

Please find attached here the revised manuscript.

Thank you again for trusting me.

Best regards,

Dr. Muhammad Faizal

Assoc. Professor

Chemical Engineering Department,

Faculty of Engineering

Sriwijaya University

INDONESIA

Pada tanggal Jum, 14 Agu 2020 pukul 08.21 SCIndeks Asistent <ceonces@gmail.com> menulis:

[Kutipan teks disembunyikan]



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Muhammad Faizal <muhammadfaizal@unsri.ac.id>

[JAES][ID 27897] Article Review Acknowledgement

2 pesan

SCIndeks Asistent <ceoncees@gmail.com>

15 September 2020 13.48

Kepada: Muhammad Faizal <muhammadfaizal@unsri.ac.id>

Dear Muhammad Faizal,

Thank you for completing the review of the submission, "Numerical Methods for Solving Improper Problems of Filtration Theory," for Journal of Applied Engineering Science. We appreciate your contribution to the quality of the work that we publish.

Prof. Dr Gradimir Danon

Editor in Chief

gdanon@iipp.rsJournal of Applied Engineering Science - JAES www.engineeringscience.rs

Ovaj mejl je poslat sa sistemskog naloga. Ako želite da odgovorite na njega, molimo Vas da koristite sledeću adresu e-pošte:

This e-mail is sent from system account. To reply, please use the following e-mail address:

"Prof. Dr Gradimir Danon"

gdanon@iipp.rs

Muhammad Faizal <muhammadfaizal@unsri.ac.id>

18 September 2020 01.45

Kepada: SCIndeks Asistent <ceoncees@gmail.com>

Dear Prof. G. Danon,

You are welcome,

Sincerely Yours,

M. Faizal

[Kutipan teks disembunyikan]