

บทความ **Analytical approach of Fe₃O₄-ethylene glycol radiative magnetohydrodynamic nanofluid on entropy generation in a shrinking wall with porous medium** ถูกอ้างอิงใน วารสารที่อยู่ในฐานข้อมูลที่ กพอ ยอมรับ 1 ครั้ง (October 2021)

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The application of analytical methods in the investigation effects of Magnetic parameter and Brownian motion on the fluid flow between two equal plates

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Abstract

In the present paper, the heat transfer and fluid velocity between two horizontal plates is examined in existence of magnetic parameter. The parameters such as magnetic fluid flow, viscosity, Brownian motion, and thermo-phoretic have been investigated according to this analysis. The innovation of this paper is using two analytical methods for calculate differential equations and comparison these results together. In this paper, the effects of magnetic field on fluid flow for industrial use are investigated. The effects of magnetic field on fluid flow are surveyed by using the Variation Iteration Method (VIM) and the Adomian Decomposition Method (ADM) and compare these methods with the numerical Runge-Kutta method. According to results, increasing the values of the magnetic parameter, the fluid velocity decreased and the fluid viscosity increased. Also, Brownian motion and thermo-

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