

Solution of Second Order Initial- Boundary Value Problems of Partial Integro-Differential Equations by using a New Transform: Mahgoub Transform

ABSTRACT. The partial integro-differential equations (PIDEs) have many possible applications in areas like mathematics, physics and engineering. Therefore, we develop a new transform, which was proposed by Mahgoub [1], for solving second order initial-boundary value problems (IBVPs) of PIDEs. This transform is characterized by its simplicity of use.

Key words: Integral transform, Mahgoub transform, Boundary value problems, Partial integro-differential equations.

M Almousa. (2019), Solution of Second Order Initial- Boundary Value Problems of Partial Integro-Differential Equations by using a New Transform: Mahgoub Transform, European Journal of Advances in Engineering and Technology 5 (10), 802-805.