

Equivalence between homotopy perturbation method and Adomian decomposition method in solving two-dimensional linear Fredholm integral equations

ABSTRACT. In this study, we present comparison between the ADM and the HPM for solving two-dimensional linear Fredholm integral equations. The analytical results revealed that the two methods give same solution for solving two-dimensional linear Fredholm integral equations. Moreover, these methods are powerful and easy to implement.

Key words: two-dimensional linear Fredholm integral equations, ADM, HPM.

M Almousa, A Ismai (2014), Equivalence between homotopy perturbation method and Adomian decomposition method in solving two- dimensional linear Fredholm integral equations. M Almousa, AIM Ismail - AIP Conference Proceedings.