

# **Numerical solution of Fredholm-Hammerstein integral equations by using optimal homotopy asymptotic method and homotopy perturbation method**

**ABSTRACT.** The aim of this work is to present the optimal homotopy asymptotic method (OHAM) and homotopy perturbation method (HPM) for solving Fredholm-Hammerstein integral equations. Several examples are discussed to show the ability of the methods. The results indicated that the methods are very effective and simple.

**Key words:** Fredholm-Hammerstein integral equations, optimal homotopy asymptotic method, homotopy perturbation method.

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