

## **Exact solutions for systems of linear and nonlinear Fredholm integral equations by using optimal homotopy asymptotic method**

**ABSTRACT.** In this paper, the optimal homotopy asymptotic method (OHAM) for solving systems of linear and nonlinear Fredholm integral equations has been presented. The results show that this new procedure is simple and effective in solving systems of Fredholm integral equations.

**Key words:** systems of linear and nonlinear Fredholm integral equations, optimal homotopy asymptotic method.

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