

## **Semi-analytic algorithms for high dimensional integral equations**

**ABSTRACT.** The goal of this study is to present the use of modification of the optimal homotopy asymptotic method (MOHAM) and optimal homotopy asymptotic method (OHAM) for solving high dimensional integral equations. The two proposed methods are reliable and efficient techniques for these types of equations. The proposed (MOHAM) algorithm gives the exact solution for high dimensional integral equations by using one iteration only.

**Key words:** high dimensional integral equations, OHAM, MOHAM.

M Almousa (2016), Semi-analytic algorithms for high dimensional integral equations. AIP Conference Proceedings.