Abstract

In this work, we use numerical technique to reduce the Volterra- Fredholm integral equation to a linear system of Fredholm integral equations of the second kind and we apply the product Nyström method to solve this system of integral equations to get the approximate solution of Volterra-Fredholm integral equation. The results are compared with the exact solution of the integral equation.

References

- I. S. Gradshteyn and I. M. Ryzhik, Table of Integrals & Series and Products, Academic

Index Terms

Computer Science

Applied Mathematics

Keywords

Volterra-Fredholm integral equation  Hilbert kernel  product Nystrom method

Numerical treatment.