

VOLTERRA TYPE INTEGRAL EQUATION METHOD FOR SCHRÖDINGER EQUATION

SHEON YOUNG KANG

ABSTRACT. The author wants to transform the Differential Schrödinger Equation to the second type Volterra Integral Equation, and then, will compare the accuracy of the numerical solutions obtained by finite difference method and Volterra type integral equation method, respectively. For comparison purpose, he wants to show the graph of relative error generated by each method with respect to a number of mesh points.

NATIONAL INSTITUTE FOR MATHEMATICAL SCIENCES, KOREA