## SOME CLASSES OF SECOND DERIVATIVE TRIGONOMETRICALLY FITTED BLOCK SCHEMES FOR THE NUMERICAL INTEGRATION OF OSCILLATORY INITIAL VALUE PROBLEMS

ABDULGANIY, RIDWANULAHI IYANDA

**JULY 2017** 

## Some Classes of Second Derivative Trigonometrically Fitted Block Schemes for the Numerical Integration of Oscillatory Initial Value Problems

By

## Abdulganiy, Ridwanulahi Iyanda

B.Sc. (Hons.) Education Mathematics University of Lagos, 2008 M.Sc. Mathematics (Applied Option) University of Lagos, 2011

A Thesis submitted to the School of Postgraduate Studies, University of Lagos in partial fulfillment of the requirements for the award of the Degree of Doctor of

Philosophy (Ph.D.) in Mathematics

Department of Mathematics

University of Lagos

July 2017