



---

**Numerical Algorithms for  
Wavelet based Solution  
of  
Partial Differential Equations**

A Thesis Submitted to

**The Maharaja Sayajirao University  
of Baroda**

For The Award of the Degree

**Doctor of Philosophy**

in

Applied Mathematics

by

**K.P.Mredula**

(Reg. No. 288)

under the guidance of

**Dr. B. M. Shah**

Head

Department of Applied Mathematics

Faculty of Technology and Engineering

The Maharaja Sayajirao University of Baroda

January, 2018