

UNIVERSITY OF CANTERBURY - COLLEGE OF ENGINEERING
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH381-09S2(C)
ADVANCED SCIENTIFIC COMPUTATION

2009 - SEMESTER 2

COURSE TEXTBOOKS/REFERENCES

RECOMMENDED:

Numerical Methods for Engineers

by Steven C. Chapra & Raymond P. Canale,
published by McGraw-Hill - 4th or 5th ed 2002/2005.
EMTH/MATH271 textbook

MATLAB: Programming for Engineers

by Stephen J. Chapman
published by Brooks-Cole - 3rd ed 2005
Recommended for all courses

OTHER REFERENCES:

Numerical Analysis

by R.L. Burden & J.D. Faires
published by Thomson - various ed to 8th 2005

Numerical Analysis: Mathematics of Scientific Computing

by D. Kincaid & W. Cheney
published by Brooks/Cole - 3rd ed. 2002

Numerical Computing with MATLAB

by Cleve B. Moler
published by SIAM - 2004

Solving ODEs with MATLAB

by L. F. Shampine, I. Gladwell, and S. Thompson
published by Cambridge University Press - 2003

Numerical Solution of Partial Differential Equations

by K. W. Morton and D. F. Mayers
published by Cambridge University Press - 2nd ed. 2005

Mastering MATLAB 6 & 7: A Comprehensive Tutorial and Reference

by D. Hanselman & B. Littlefield
published by Prentice-Hall - 2001/5

Getting Started with MATLAB 7

by R. Pratap
published by Oxford University Press - 2005

A Guide to Matlab for Beginners and Experienced Users

by B.R. Hunt; R.L. Lipsman; J.M. Rosenberg
published by Cambridge University Press - 2001