

# NAG Library Manual, Mark 9

## Contents

	<b>Volume</b>
<b>Introduction</b>	
Essential Introduction	1
NAG C Library News, Mark 9	1
Library Contents	1
Functions Withdrawn or Scheduled for Withdrawal	1
Advice on Replacement Calls for Withdrawn/Superseded Functions	1
Online Documentation	1
<b>Indexes</b>	
Indexes	1
<b>Implementation-specific Information</b>	
Implementation-specific Information	1
<b>Chapters of the Library</b>	
a00 – Library Identification	1
a02 – Complex Arithmetic	1
c02 – Zeros of Polynomials	1
c05 – Roots of One or More Transcendental Equations	1
c06 – Fourier Transforms	1
c09 – Wavelet Transforms	1
d01 – Quadrature	1
d02 – Ordinary Differential Equations	1
d03 – Partial Differential Equations	2
d06 – Mesh Generation	2
e01 – Interpolation	2
e02 – Curve and Surface Fitting	3
e04 – Minimizing or Maximizing a Function	3/4
e05 – Global Optimization of a Function	
f – Linear Algebra	4
f01 – Matrix Factorizations	4
f02 – Eigenvalues and Eigenvectors	4
f03 – Determinants	4
f04 – Simultaneous Linear Equations	4
f06 – Linear Algebra Support Functions	4

f07 – Linear Equations (LAPACK)	4/5
f08 – Least-squares and Eigenvalue Problems (LAPACK)	5/6
f11 – Large Scale Linear Systems	6
f12 – Large Scale Eigenproblems	7
f16 – NAG Interface to BLAS	7
g01 – Simple Calculations on Statistical Data	7
g02 – Correlation and Regression Analysis	7
g03 – Multivariate Methods	8
g04 – Analysis of Variance	8
g05 – Random Number Generators	8
g07 – Univariate Estimation	8
g08 – Nonparametric Statistics	9
g10 – Smoothing in Statistics	9
g11 – Contingency Table Analysis	9
g12 – Survival Analysis	9
g13 – Time Series Analysis	9
h – Operations Research	10
m01 – Sorting and Searching	10
s – Approximations of Special Functions	10
x01 – Mathematical Constants	10
x02 – Machine Constants	10
x04 – Input/Output Utilities	10

---