

NAG Library Chapter Contents

a02 – Complex Arithmetic

a02 Chapter Introduction – a description of the Chapter and an overview of the algorithms available

Function Name	Mark of Introduction	Purpose
a02bac	2	nag_complex Complex number from real and imaginary parts
a02bbc	2	nag_complex_real Real part of a complex number
a02bcc	2	nag_complex_imag Imaginary part of a complex number
a02cac	2	nag_complex_add Addition of two complex numbers
a02cbc	2	nag_complex_subtract Subtraction of two complex numbers
a02ccc	2	nag_complex_multiply Multiplication of two complex numbers
a02cdc	2	nag_complex_divide Quotient of two complex numbers
a02cec	2	nag_complex_negate Negation of a complex number
a02cfc	2	nag_complex_conjg Conjugate of a complex number
a02cgc	2	nag_complex_equal Equality of two complex numbers
a02chc	2	nag_complex_not_equal Inequality of two complex numbers
a02dac	2	nag_complex_arg Argument of a complex number
a02dbc	2	nag_complex_abs Modulus of a complex number
a02dcc	2	nag_complex_sqrt Square root of a complex number
a02ddc	2	nag_complex_i_power Complex number raised to integer power
a02dec	2	nag_complex_r_power Complex number raised to real power
a02dfc	2	nag_complex_c_power Complex number raised to complex power
a02dgc	2	nag_complex_log Complex logarithm
a02dhc	2	nag_complex_exp Complex exponential
a02djc	2	nag_complex_sin Complex sine
a02dkc	2	nag_complex_cos Complex cosine
a02dlc	2	nag_complex_tan Complex tangent