

11.22 A multiplication between the two complex numbers $a + j b$ and $c + j d$ can be rewritten

$$Temp_1 = c*(a + b)$$

$$Temp_2 = a*(d - c)$$

$$Temp_3 = b*(c + d)$$

$$\text{Imag part} = Temp_1 + Temp_2 \quad \{c(a + b) + a(d - c) = ad + cb\}$$

$$\text{Real part} = Temp_1 - Temp_3 \quad \{c(a + b) - b(c + d) = ac - bd\}$$

