\[ a_k = \left( \eta^+ + \eta^- C_f \right) + \zeta \Re(z) (\eta^\Re D_f + \eta^\Im S_f) \\
+ \Im(z) (\eta^\Im D_f - \eta^\Re S_f) \]

\[ b_k = \left( \eta^\Re D_f + \eta^\Im S_f \right) + \Re(z) (\zeta^+ + \zeta^- C_f) \]

\[ c_k = \zeta (\eta^- + \eta^+ C_f) - \zeta \Re(z) (\eta^\Re D_f + \eta^\Im S_f) \\
- \Im(z) (\eta^\Im D_f - \eta^\Re S_f) \]

\[ d_k = \zeta (\eta^\Im D_f - \eta^\Re S_f) + \Im(z) (\zeta^+ + \zeta^- C_f) \]