

source code:
alpha = step_length(f, g, xk, 1.0, pk, c2)
xk1 = xk + alpha * pk
gk1 = g(xk1)
beta_k1 = np.dot(gk1, gk1) / np.dot(gk, gk)
pk1 = -gk1 + beta_k1 * pk
if np.linalg.norm(xk1 - xk) < error:

