

Across all four plots:

RSS (converged)=0.087

RSS (initial)=3.942

RSS (% reduction)=0.979

message: Optimization terminated successfully.
success: True
status: 0

	epsilon	Initial_guesses	Converged
P_b	3.194413e-01	6.710423e-02	3.865456e-01
P_u	8.350648e-06	2.189588e-06	1.054024e-05
K_12	-8.426972e+02	1.065381e+03	2.226840e+02
C_pa	1.305707e+09	1.634913e+09	2.940620e+09
A_s	-1.106887e+04	1.452100e+04	3.452129e+03
P_r	0.000000e+00	1.285766e+00	1.285766e+00
C_pt	0.000000e+00	1.101671e-02	1.101671e-02
K_t	0.000000e+00	7.228939e-05	7.228939e-05
A_r	0.000000e+00	1.633549e+05	1.633549e+05
P_o	0.000000e+00	1.229728e+00	1.229728e+00
C_pl	0.000000e+00	1.247659e-02	1.247659e-02
K_l	0.000000e+00	2.018275e-06	2.018275e-06
A_o	0.000000e+00	9.109492e+04	9.109492e+04
F_o	0.000000e+00	1.482604e+00	1.482604e+00

fun: 0.08651068620269821
x: [3.865e-01 1.054e-05 ... 9.109e+04 1.483e+00]
nit: 797
nfev: 1515
final_simplex: (array([[3.865e-01, 1.054e-05, ..., 9.109e+04, 1.483e+00],
[3.865e-01, 1.054e-05, ..., 9.109e+04, 1.483e+00],
...,
[3.865e-01, 1.054e-05, ..., 9.109e+04, 1.483e+00],
[3.865e-01, 1.054e-05, ..., 9.109e+04, 1.483e+00]]), array([8.651e-02, 8.651e-02, ..., 8.651e-02, 8.651e-02]))