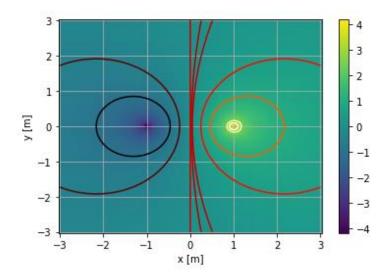
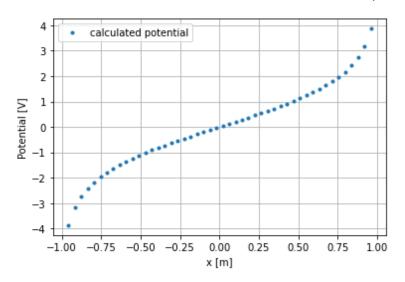
פתרון תרגיל פייתון

פוטנציאל חשמלי:

:5-7 סעיפים



:8 סעיף

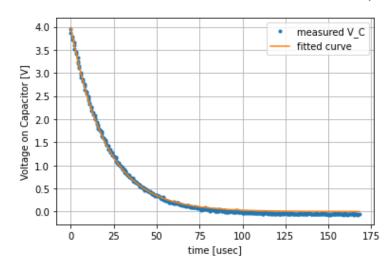


קבל:

C_theoretical = 4.5e-10 F :2 סעיף

tau_theoretical = 1.73e-5 sec :3 סעיף

:7 סעיף



:11 סעיף

V0_fit = 3.99 V

tau_fit = 2.044e-5 sec

:12 סעיף

V0_fit_err = 0.01 V

tau_fit_err = 8e-8 sec

:15 סעיף

Chi2 = 267.5

DoF = 418

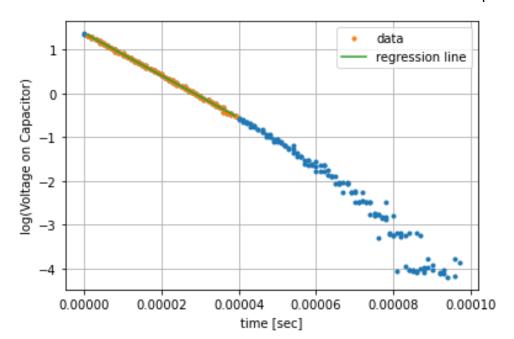
:16 סעיף

p-value = ~1

:17 סעיף

R_squared_of_fit = 0.998

:18 סעיף



:22 סעיף

V0_reg = 3.98 V

tau_reg = 2.067e-5 sec

:23 סעיף

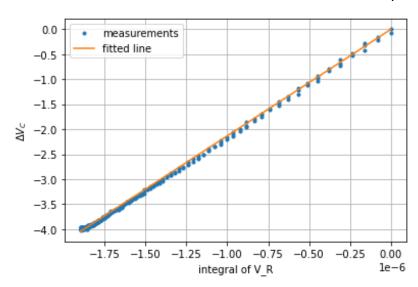
V0_reg_err = 0.02 V

tau_reg_err = 7e-8 sec

:24 סעיף

R_squared_of_reg = 0.999

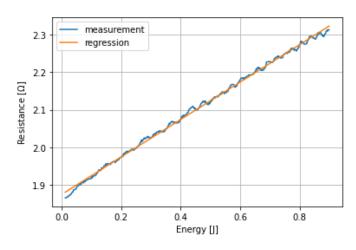
:27 סעיף



C_meas = 4.8e-10 F :28 סעיף

חוק אוהם

:12 סעיף



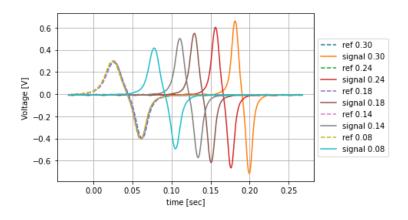
:14 סעיף

R0 = 1.88 ohm

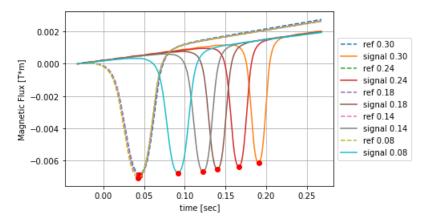
Alpha_over_C_heat = 0.26 1/J

:השראות

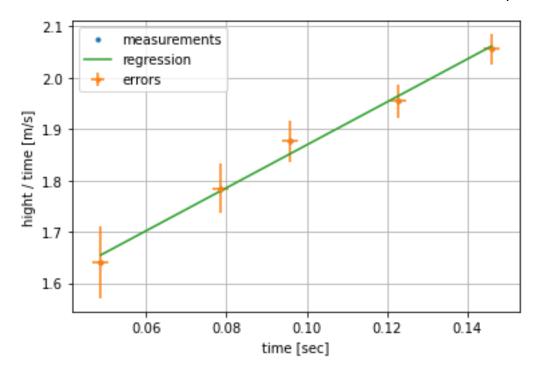
:5 סעיף



:7 סעיף



:12 סעיף



:14 סעיף

v0=1.45 m/sec

a = 8.36 m/sec^2

:16 סעיף

R_squared_reg = 0.99

:17 סעיף

Chi_squared = 0.518

Dof=3

p-vaule = 0.915