# absorption.m

#### end

### solve.m

fun = @absorption; x0 = [0,8881]; x = fsolve(fun,x0)

## solve\_alt.m

options = optimoptions('fmincon'); fun = @absorption; x0 = [0,8881]; x = fsolve(fun,x0,options)

### Session

>> solve

Equation solved.

fsolve completed because the vector of function values is near zero as measured by the default value of the function tolerance, and the problem appears regular as measured by the gradient.

<stopping criteria details>

x = 1.0e+03 \* 0.1130 8.6811 >> solve\_alt
Warning: You have passed FMINCON options to FSOLVE. FSOLVE will use the
common options and ignore the
FMINCON options that do not apply.
To avoid this warning, convert the FMINCON options using OPTIMOPTIONS.
> In SolverOptions>SolverOptions.convertForSolver at 452
In prepareOptionsForSolver at 25
In fsolve at 140
In solve\_alt at 4

Equation solved.

fsolve completed because the vector of function values is near zero as measured by the default value of the function tolerance, and the problem appears regular as measured by the gradient.

<stopping criteria details>

x =		
1.0e+03	*	
0.1128		8.6798

>>

### Comments

Matlab makes things way easy, man! How *can* life be so good?!

Second solution is more accurate.



How very nice!

