The PySimple1 Material

uniaxialMaterial PySimple1 matTag? soilType? pult? y50? Cd? <c>

The above command constructs a simple uniaxial p-y material for use with a zeroLength element. The argument matTag is used to uniquely identify this uniaxialMaterial object among uniaxialMaterial objects in the BasicBuilder object. The argument soilType currently can be:

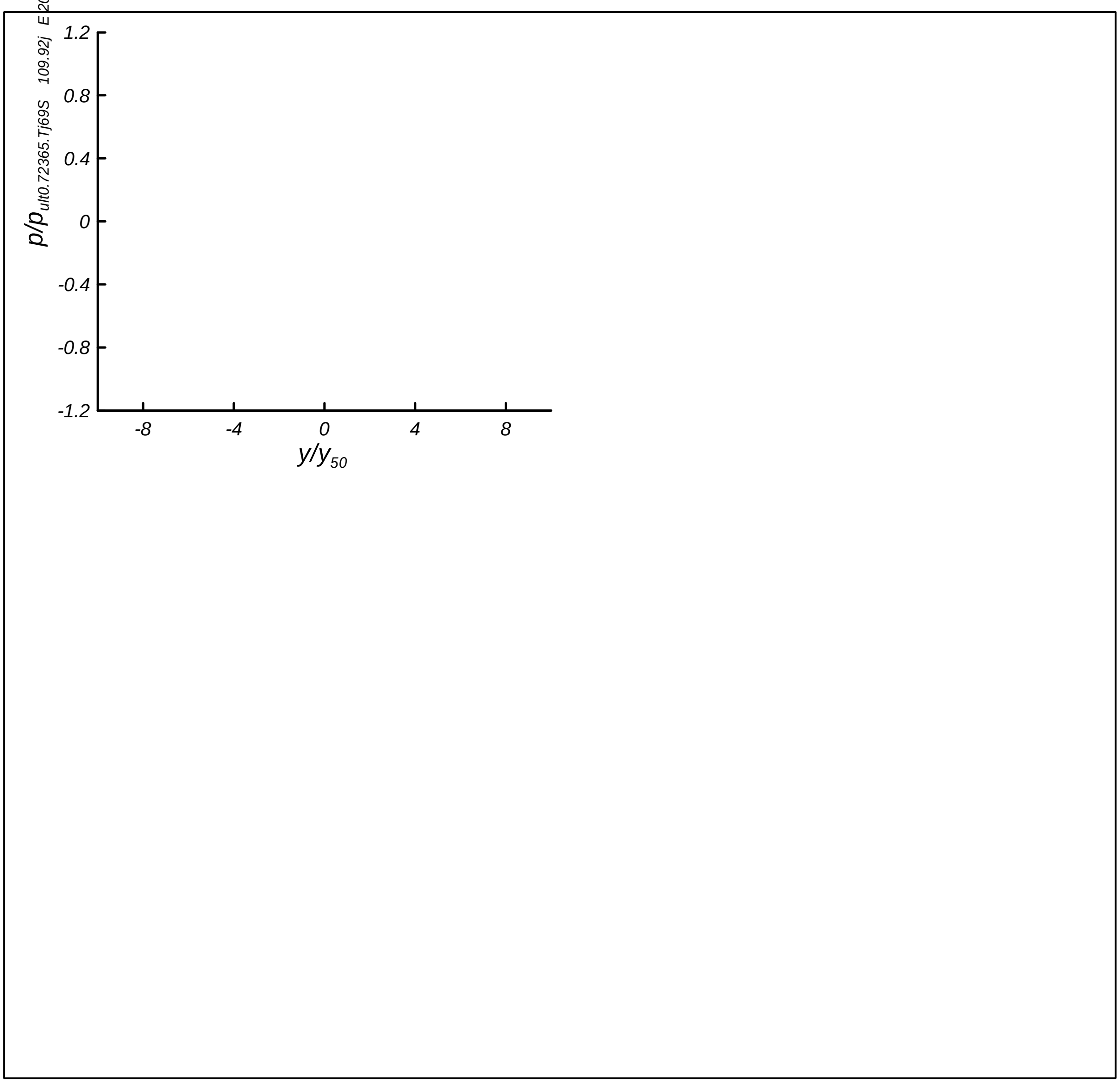
soilType = 1 Backbone of p-y curve approximates Matlock (1970) soft clay relation. soilType = 1

Appendix: Equations and Example Res0r1s for the PySixamp1 Material

The nonlinear drag (p^d-y^g) spring is described by:

where C_d = ratio of the maximum drag force to the ultimate resistance of the p-y material, p_o^d = p^d at the start of the current loading cycle, and y_o^g = y^g at the start of the current loading cycle.

The flexibility of the above equations can be used to approximate different p-y backbone yimu soft clay() closelybe used to ac
4.3p


1.2
0.8
0.4
0
-0.4
-0.8
-1.2
p/pult
-8
-4
0
4
8
y/y50