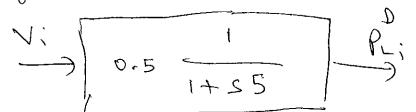
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Consider the local onodaling publim.

Dri = Dri 1 20 centres Dri = Dri 1 20 centres Dri = Dri 1 20 centres

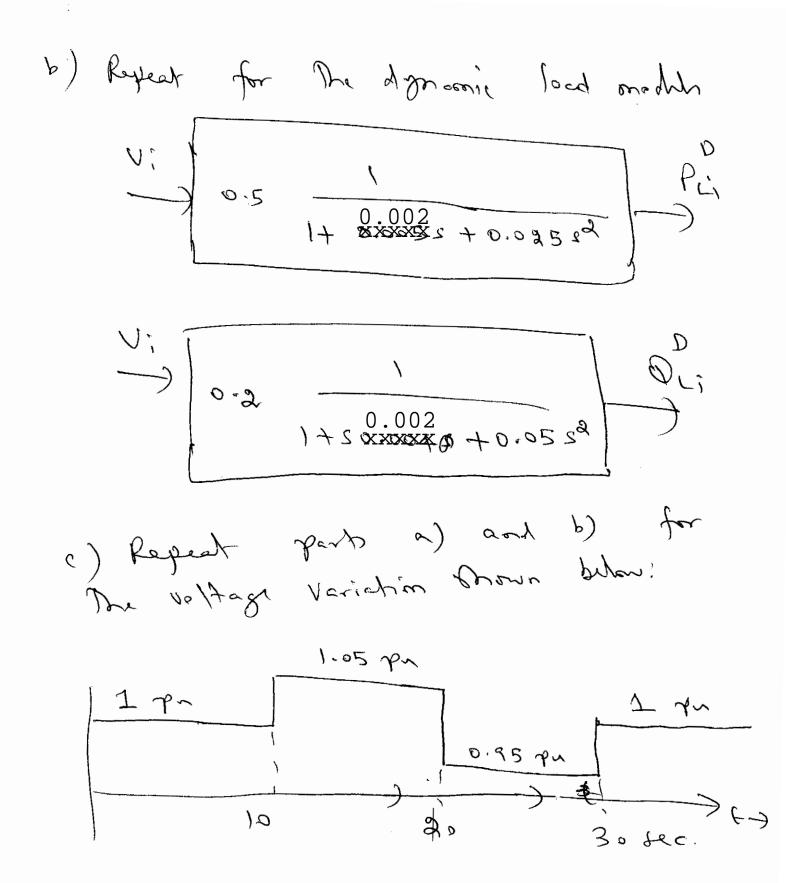
Static Coal Model:

Dynamic Load Model:



a) Embour parts holfall prouder frem 1 to 0.9 be at tions t=10 sec. and from \$50.9 pm to sec. Find The responent of 0.95 pn 2 t=20 The loads Ri and Qui.

1 20 0.95 109 0.95 109 0.95 109 0.95



d) Suppose the static load model changes to PLStatic = 0.2 + 0.2 V + 0.1 V*V and QLStatic = 0.1 V + 0.1 V*V. Then repeat parts a) through c) with this model.

2) Estimate the composite load model of a substation using the load response shown below. The static load is assumed to be a ZIP model and the dynamic load is modeled by a first order transfer function.

