Static Variational formulation:

$$\int_{SL} C_{\bullet}(\vec{du} \cdot \vec{v}) + \int_{SC} G\vec{u}) : E(\vec{v}) + \int_{SL} \rho g v_3 = 0$$

with
$$du_1 = du_2 = du_3 = 0$$
 of base

$$C_{0} = \frac{p}{\beta \Delta t^{2}}$$

$$C_{1} = \frac{p}{\beta \Delta t}$$

$$C_{2} = \frac{p(1-2\beta)}{2\beta}$$

dynamic Variational formulation:

$$\int \frac{C_{\bullet}(\vec{du} \cdot \vec{v})}{SL} + \int \frac{C_{\bullet}(\vec{du}) \cdot \epsilon(\vec{v})}{SL} + \int \frac{C_{\bullet}(\vec{v} \cdot \vec{v})}{SL} +$$

with du = U signal of base

: boundary Conditions 15 - ' Main mahix 'A' v in the varihimal formulation

Us ignal

Algorithm:

- · Solve Statie (du=A-1b)
 - Vold=du
- · loop on time
 - · Solve dynamic (du=A-1b)
 - · update Void (du), Void (du)

 aola (du) using Newmark-B
 - paranelow Nord.