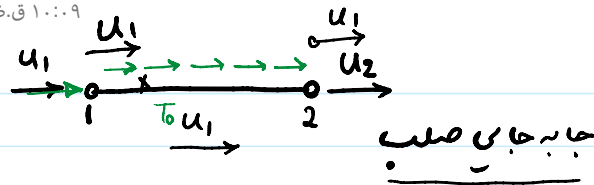


A Simple FE Code in Matlab

دوشنبه ۱۹ مهر ۱۴۰۰ ۱۰:۰۹ ق.ظ

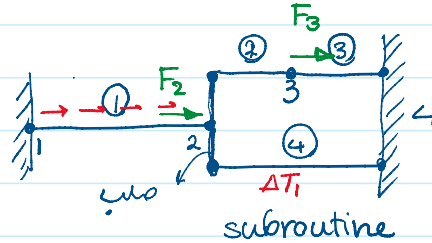


$$u = N_1 u_1 + N_2 u_2$$

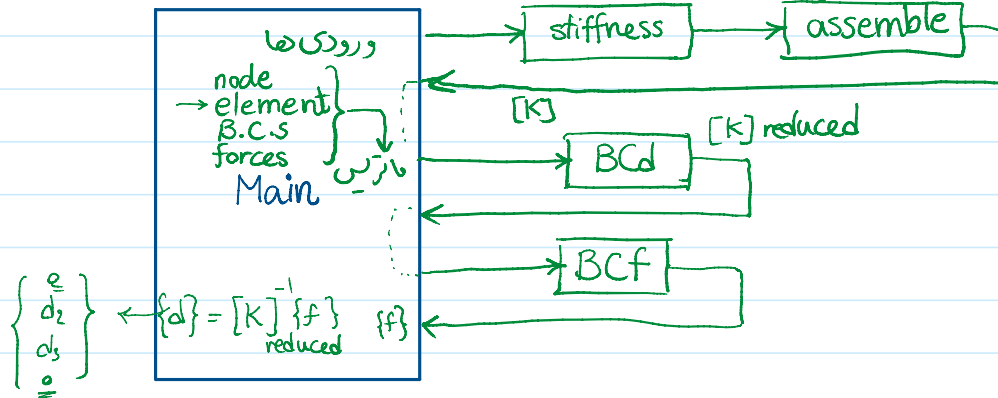
$$u_1 = N_1 u_1 + N_2 u_1$$

$$= \underbrace{(N_1 + N_2)}_1 u_1$$

Bar element - 1D
matlab



نکته: رعایت نظم



node.txt	no. of node	x-coordinate	y-coordinate		
element.txt	no. of element	no. of 1st node	no. of 2nd node	E	A
BCf.txt	identifier	no. of node/element	amount of force		
	1: nodal force	2: distributed	3: temperature		
	1	2	F2		
	1	3	F3		
	2	1	w1		
	3	4	αΔT1		
BCd.txt	no. of node	amount of displacement			