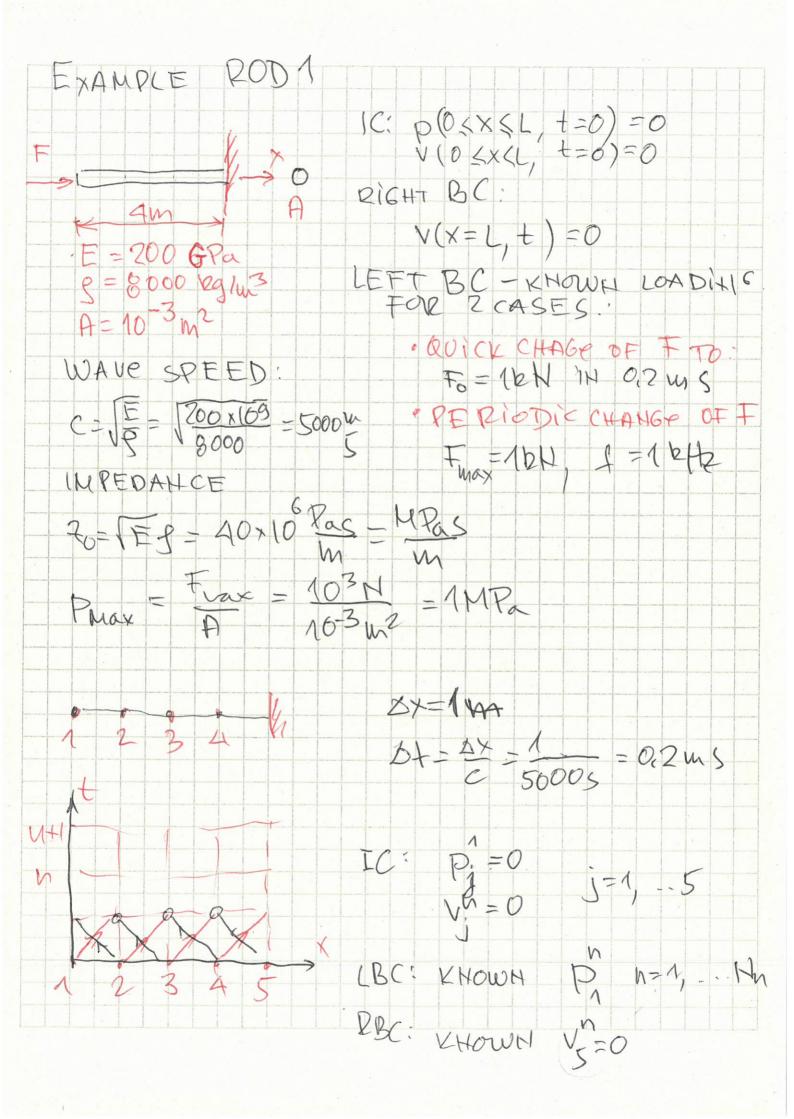
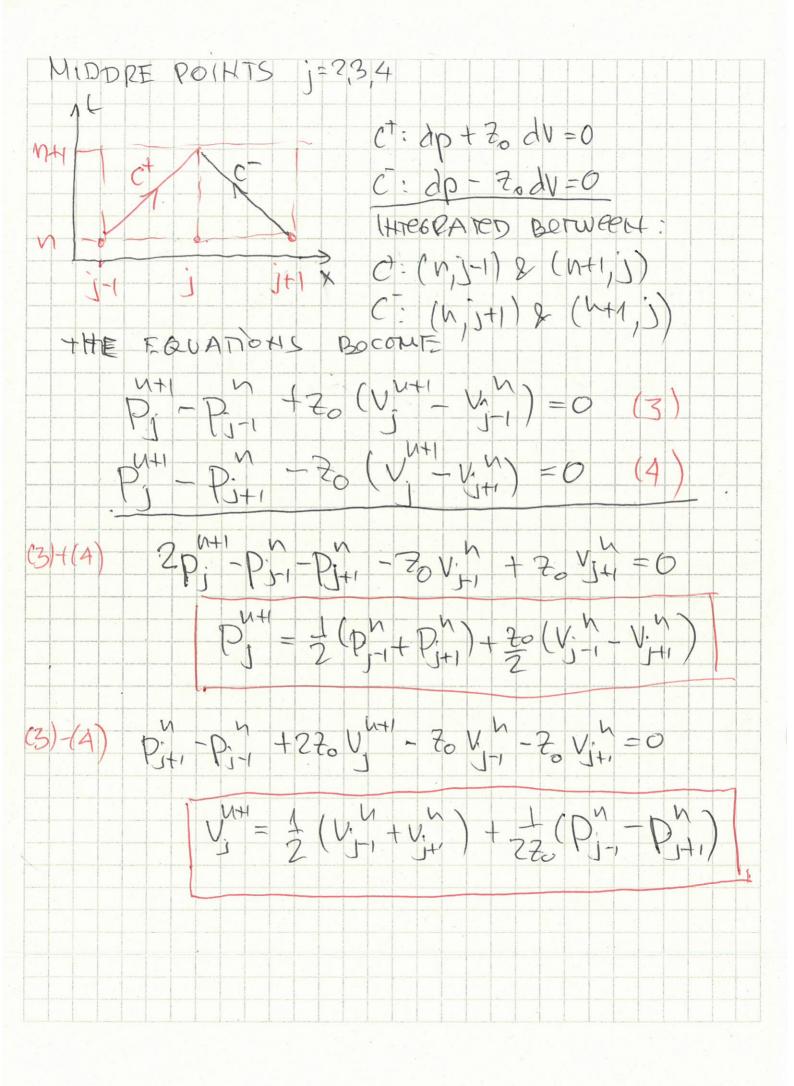
2211.	
2.3 MOC FOR 1D ELASTI	C WAVES IN A SOLID
EQUATIONS:	
30 -E 2x =0	G-MORMALL STROSS [Pa]
	V-SPEED OF PARTICLES [47
$\frac{\partial V}{\partial t} - \frac{1}{2} \frac{\partial S}{\partial G} = 0$	E-MODULUS OF ELASTICITY [B)
TO BO COUSISTEHT	e-DeHSity [bg/m3]
WITH OTHER EHG, APPLICATI WE WILL USE PRESSURE, INSTEAD OF G	045
INSTEAD OF G	
P=-G	
3P + E 3V -0 (1)	
$\frac{95}{90} + \frac{1}{1} \frac{30}{30} = 0$ (5)	
BY MAKING A LIMPAR	COUBINATION OF
FORM OF THE SYSTE	HE CHARACTERISTIC M (1), (Z).
dp + 2 dV = 0 ALO	N6: C+= dx=c = C= VE
dp - 2 dv = 0 Acc	2H6 C = C 20-VES
MOC IS APPLIED IN T	HE SAME WAY AS BOFORT
	$t \stackrel{\triangle \times}{\rightarrow} = C C_{V} = \stackrel{C \stackrel{\triangle \times}{\rightarrow}}{\rightarrow} = 1$
V. T.	t at
2	OLC KHOWH PRV AT t=0
1 2 - J+ J j+1 - N, Y	X CBC KHOWN AT X=0 X RBC PORVORP(V) X=L
E S	bornorbin) X=r





(EFT BC C: dp-20dV=6 1x7862ATE BOTWAR (n,2) & (n+1,1) So we solve (5) For V_1 P1 - P2 - 20 V1 + 20 V2 = 0 V1 = V2 + 1 (P1 - P2) RIGHT BC c+: dp + 20 dV = 0 INTEGRATED BETWEEN (N, 4) & (N+1,5) NH N P5 - P4 + 70 (N+1 V/1)=0 (6) VMH SO WE SOLVE (6) FOR PMH P5 = P4 + 80 V4

ALL		
LB:	j=1	PhH is KHOWH
		V1 = V2 + 40 (P1 - P2)
MiDDLP	j=2,3,4	$P_{j} = \frac{1}{2} \left(P_{j-1} + P_{j+1} \right) + 20 \left(V_{j-1} - V_{j+1} \right)$
	3 (7)	
		Vi = { (Vin + Vin) + 80 (Bin - Pin)
RB	j=5	$V_{\tau}^{(k+1)} = 0$
		P5 = P4 + 40, V
SUD	DEN CHA	HEE OF LOADING
X(m)		1 2 3 1 4
tlus	P(ME) V(MV) P	VPVPV
0	000	00000000000
0,2	25 0	000000
GA	25	25 0 0 0 0 0
0,6	1 25 / (25/1/25/0/0/00
	1	
	BC	RBC .