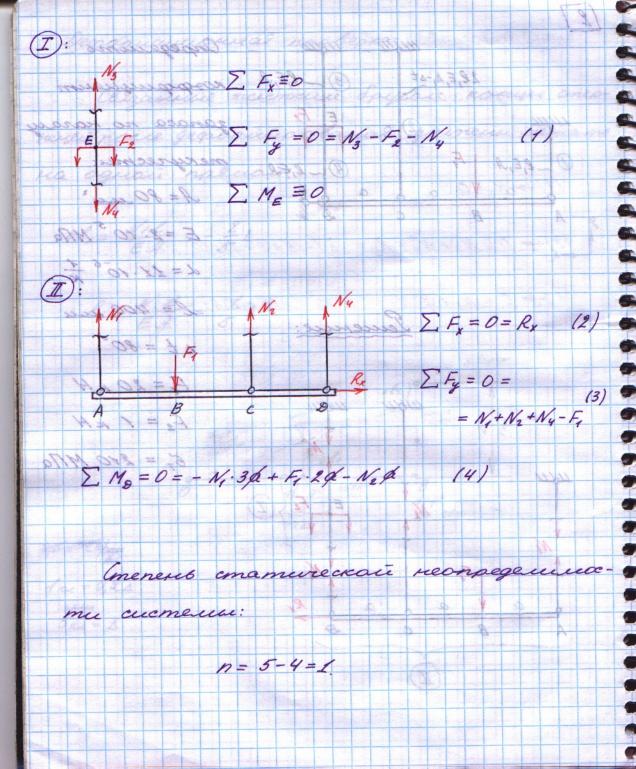
3999999999999 (1/1/11) 11611 Опреденть 2 l, E, A, -st l;E,A (3) конфациинент 11111 2 zanaca no kara 0 P,E,A текучести: l, EA a A = 80 mes? A E = 2.10 MMa d=11.100 + l = 400 mu Temerue: st = 80° F = 20 KH 111811 1110111 7-10 W+N = FI= 1 KH 67 = 210 MMa 141 11411 N2 NI Nys a a Rx a 5-4-I



Уравнение совисстности деформации: Ali = AA = Nil sl= cc'= 2N2l + d.2.l.(-st) sl34 = 22' = Al3 + ol4 = N3l + N4l EA tg / = sl34-sl, = sl2-sl, 20l34-20l, = 30l2-30l, 11 2 s l34 + sl, - 3 sl2 = 0

2N3+2N4+N,-6N2+6datEA=0 (5) Remal accomency ypabrierent (1)... (5) annocumerono Ni, naugrune: N= 27 [8F,-F2-3dotEA] N= = [F, + F2 + 3 2 st EA] N3 = 1 [23. F, + 23. F2 - 12. d. st EA] Ny = + 1 5F, -4F2 - 12 Lot EA] Tagemabell receivement guarement no-N, = 8648, 8/8/ = 8649 H No = 14053, 3(3) = 14050 H

 $N_3 = 1 + \omega_{-}$ $N_4 = -2702 2(2) = -2702 H$ CH = - 0,0014110 (1): N3 - F2 - N4 = -1702 - 1000 - 2702 = 0 $(2) \quad R_{x} = 0$ (3): Ny-Fy+Ny+Ny=8649-20000+14050-2702= = 130 (4): -3N, +2F, -N2 = -3.8649 + 2.20000 - 14053 = = 0 112 = 6000 10 10 10 88 = 88 = 68

Дерариационная проверка: sl, = Nel = 8649 0,4 162 -4 162 -4 = 0,216 2011 ol= 2N2l - 2dotl= 2.14053.0,4 = 2.11.10.80.0,4 = = - 1,4.10 6 u = -0,001407.10 u $bl_{3,4} = \frac{(N_3 + N_4)l}{EA} = \frac{(-1702 - 2702) \cdot 0,4}{2 \cdot 10'' \cdot 80 \cdot 10^{-6}} = -0.110110^{-3}u$ 11 - K + 11 - 11 = 8649-I 1m=0,088.10 m 0,06414. 9,8 Km. BB'=88'=0, 41:01.10 u.

133333333333333333333 Hanplncemul: $61 = \frac{N_1}{A_1} = \frac{N_2}{A} = \frac{8.649}{80.10^{-6}} \approx 1081.10^{-6} 11a$ $6_2 = \frac{N_2}{A_2} = \frac{N_2}{A} = \frac{14053}{90.10^{-6}} \approx 175.10^6 Ma$ $6_3 = \frac{N_3}{A_3} = \frac{N_3}{A} = -\frac{1702}{80.10^6} = -2128.10^6 Ma$ $6y = \frac{N_4}{A_4} = \frac{N_4}{A} = -\frac{2702}{80.10^6} = -33,78.10^6 Ma.$ 16 max = 10 2 1 = 175 MITG. Козаранциент запаса по нагану те Kyrecmu: 2 = 67 = 210.10 = 1,2