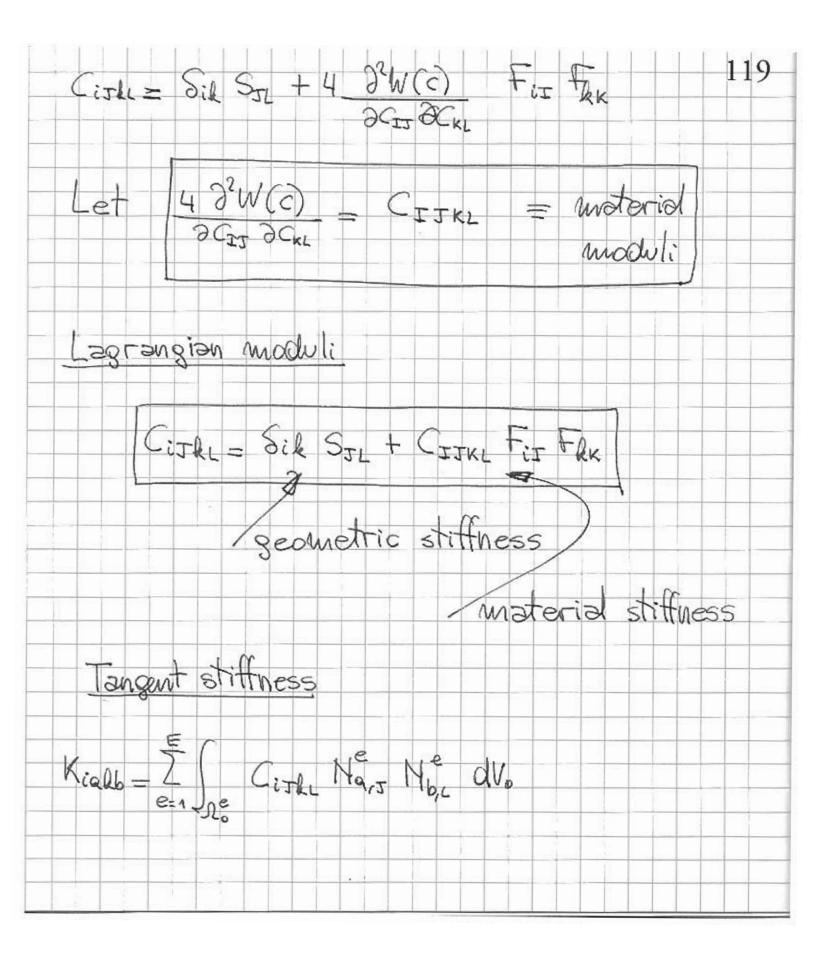
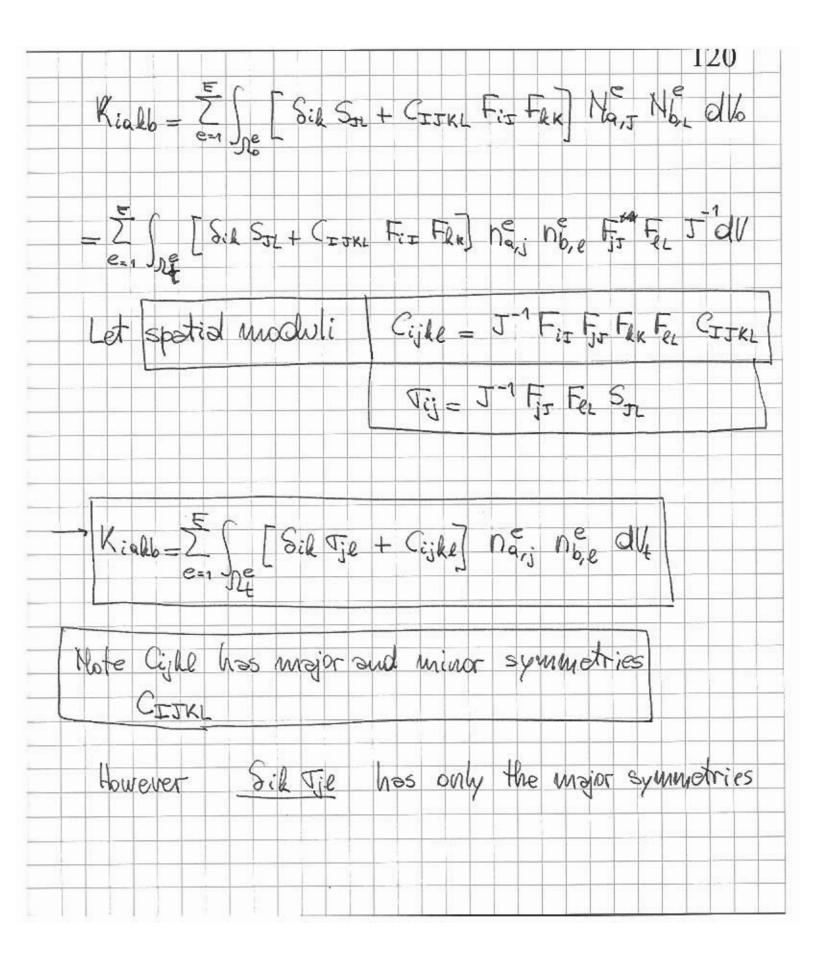


$$S_{IJ} = 3 \frac{1}{9} C_{IJ}$$

2P05 for materials Form 117 Cith! 2 Fl satisfying material frame in difference. Z f(I) We 2p,Wp I f(sp) wp Ch X\_TX. XxS) X = Exa Ma(s) 3, wp ûp det det (DX xsjø Calculation of tangent stiffness (control) JES DER C:285 = 36:2

Material frame indifference 
$$W(F) = W(QF)$$
,  $Q \in SO(S)$ 
 $\Rightarrow W(C)$ ,  $C = F^TF$ 
 $SIJ = \frac{3}{3}CIJ$ 
 $CiJLL = \frac{3}{9}E_{LL}$  ( $2 + F_{LL} = 2 + F_{LL$ 





Kialb = 2 [Sid Je na, nb, e + (BeT C Be) ight The linearizing about non-stress-free configuration beeps the first term LE: lunearized version of the above + initial configuration is stress-free. Remark: Cite and have a simple form in then Cite or CITKL . w(c) Examples: so for only restriction unsterid frame indifference.