```
crystallite_integrateStress
Fg_new=crystallite_subF
Fp_current = crystallite_subFp0
Tstar_v = crystallite_Tstar_v
Lpguess_old = crystallite_Lp
Lpguess=crystallite Lp
crystallite_integrateStress = .false.
  invFp current = math inv3x3(Fp current)
               invFp_current == 0.0
.true
                                                                 .false.
return
                                       Ø
A=invFp_current ^T*Fg_new ^T*Fg_new *invFp_current
  constitutive_microstructure
  C = math_Mandel66to3333(constitutive_homogenizedC())
NiterationStress = 0
leapfrog = 1.0
maxleap = 1024.0
    LP LOOP (see crystallite_integrateStress_LpLoop)
invFp_new=invFp_current*B
invFp_new=invFp_new/math_det3x3(invFp_new)^(1.0/3.0)
  [Fp_new,det,error] = math_invert3x3(invFp_new)
                               error
                                                                 .false.
.true.
INVERSION FAILED: return
                                                  Ø
Fe_new=Fg_new*invFp_new
Tstar_v = Tstar_v + p_hydro
crystallite_P=Fe_new*Tstar_v*invFp_new^T
crystallite_Lp = Lpguess
crystallite_Tstar_v=Tstar_v
crystallite Fp=Fp new
crystallite_Fe=Fe_new
crystallite_integrateStress = .true.
```