























6







- Stress check
- Calculate hypothetical extreme fiber tension stress *f*

 $f = (M_D + M_L + M_{PT})/S + P/A$

- Increase PT or make other changes if $f < 6\sqrt{f'_c}$
- Otherwise continue with design







<page-header> 10 - Design for Transfer of Prestressing; Initial Condition At stressing: Tendon has its maximum force Concrete has low strength Live load to counteract prestressing is absent Stresses induced at jacking can lead to spalling of concrete; excessive creep, or cracking if conditions are not right.

10 – Design for Transfer of Prestressing; Initial Condition

Check the safe transfer of Prestressing at jacking

- Add rebar where "representative" (hypothetical) tension stresses exceed the allowable threshold
- Do not exceed "representative" hypothetical compressive stresses. Wait until concrete gains adequate strength



10















Thank you

Reference Aalami, Bijan, "*Post-Tensioned Buildings; Design and Construction*," www.PT-Structures.com

www.PT-Structures.com