Frution

- bone, ats tomental to unface

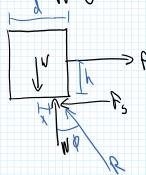
- resista movement

- Columbia Prestion

F5=M5FN Fx=MKFN

caroding to compusor treating at sub-

- Phoh tipping?



Tup the p.h > W.K

2h > 1

No.

 $\phi = \operatorname{onton}\left(\frac{F_s}{N}\right)$ $= \operatorname{onton}(u_s)$

Petts and Pulleys

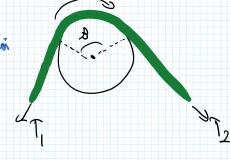
- Fy, frution T are not unboun throughout system

T= Tele B ongle of engagement

Table

Table

Sention of territor



1 russes

- struture made up of multiple stender members cornected at subs via pers - structure mode up of multiple scender members
- all bours act on joints
- all beaus are 2 from members
- single base unit is a \triangle Beam in Penson Vs. Compression

Lead to building

-How to solve trus problems over bor reation bones

(5 entropy of Joints / Sections

Method of Jointo

Look at a joint and all

the force acting on it.

5 ohre = epinturo to

yet unhumous

Method of Sections

Mohe a cut through

members to reveal internal

borus, solve bo unknown

to be - then they are in compression

- Leve borse member if I are coliners the thil is a O bone member

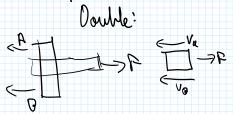
France / Morbines - mot all 26 one members

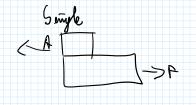
choal transport lime at the company mister combann -- disosemble frames at their joints - bor two members bores are equal and opposite -Oran PEO 60 Subberent components) groups of components to anternal Color Wormal Steven -Normal stes - Georg stress J= P A projected Georing surface = surface of contact chool burretirl with allower example internal homes

- cut plane, exprese internal bones W: mound bone V: shear bone Mo: bending moment Postire comentars Sheon Stress

~= V A R A To 11 to bone

-on a pun







- yield strength: strength at which a moterial closes to be electric - Ultimate strength: mox strengths of a unsternal

- forto of whate

- stress on an initinal phone

- stress on an initimal phone

P - Disp

Strom

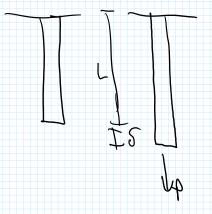
- deformation, droug in length

5 train

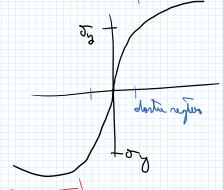
- deparmetion, drange in lengths

E= 5 < state

L conjunt lengths



Dutto Nateral Plate deboration



some yield strength in tension and compression

Inttle Miterials
- much longer yield stough in compression

Johnson Guno - moterial property which connects stress than then your stoin Theor than > h y ton y = 5 mul > y = 5 ongle aprox. Les Modulis New Sheer sheer marts arluban Contraction Oceaning Strain - them also develop I to opphied low Poissons Rotio $V = \left| \frac{\text{Voterul stain}}{\text{Axial strain}} \right| = -\frac{\mathcal{E}_{y}}{\mathcal{E}_{x}} = -\frac{\mathcal{E}_{z}}{\mathcal{E}_{x}}$ - count be yester than 05