· Primarily due to losses

· Very limited in spatial extent (usually)

why losses?

because there is friction
- rason fluid viscosity

viscous fluid: all fluids are viscous

e.g. (oil - high vicosity, air slow viscosity)

inviscid fluid: fluid with zero viscosity

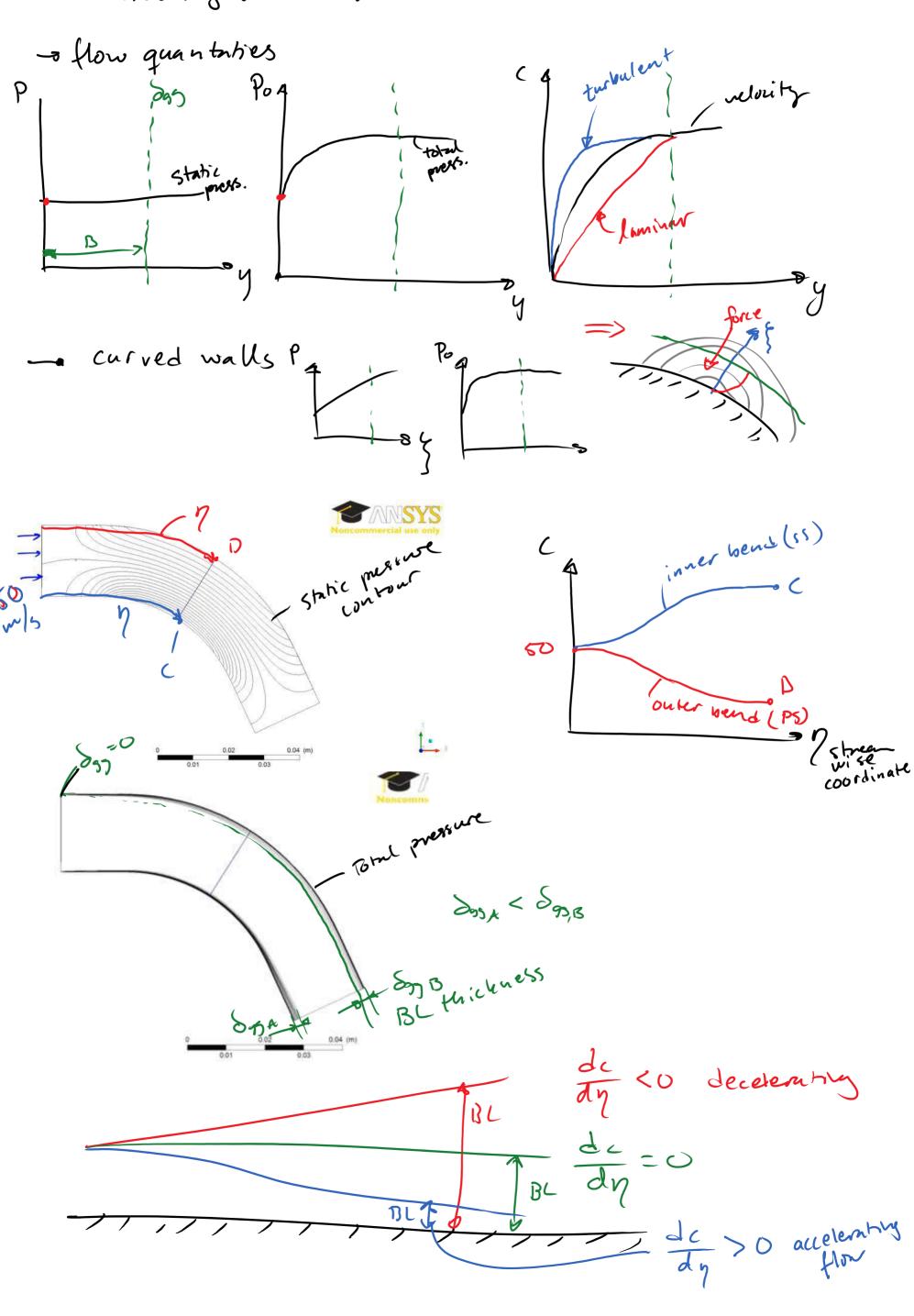
are used to treat the flow (modelling)

a simplified manner

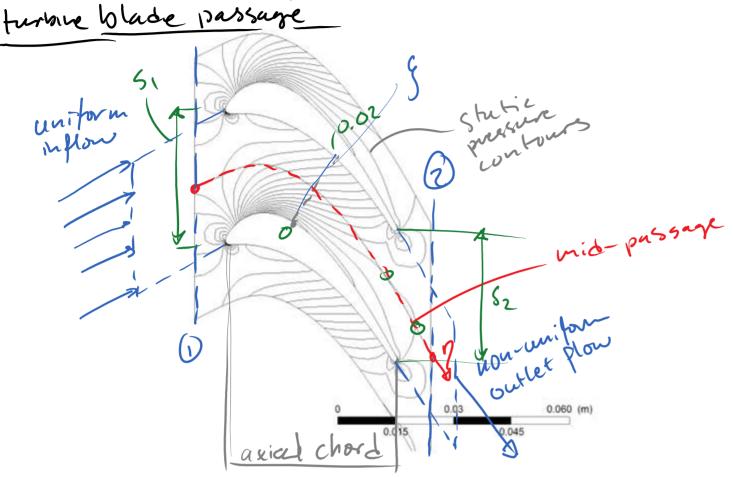
velocity profile

(no slip)

vircosity 1 - bgs +



if $\left|\frac{dc}{d\eta}\right|$ is to great (and $\frac{dp}{d\eta}$) => n3k of seperation



plot the static presence on the mid-presence in streamwise direction (17)

decrease in pressure from 1 to 2

to the acceleration

- the 213 statiz previouse field is a combination of flow deviation and (here) acceleration turbone blade

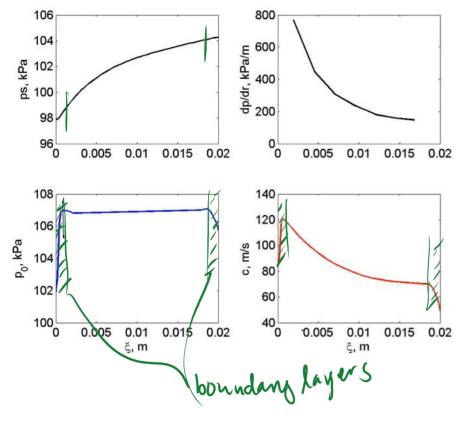
- the nearon for having the channel xwss-section decreasing (or) increasing 8,=52 if rm=4

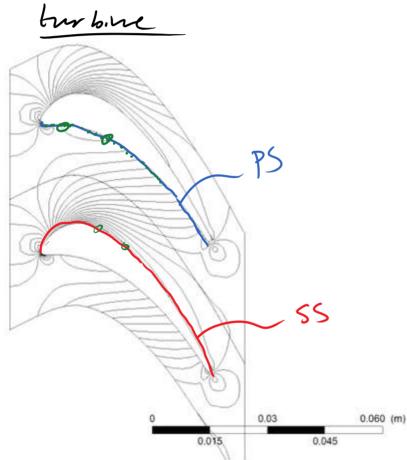
S,= 2TI. Im => S = count.

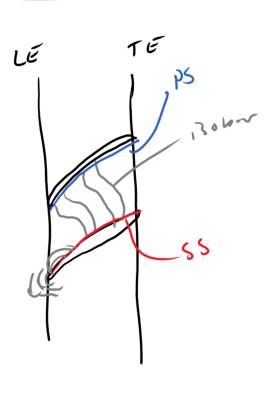
blades

den 24 januari 2018

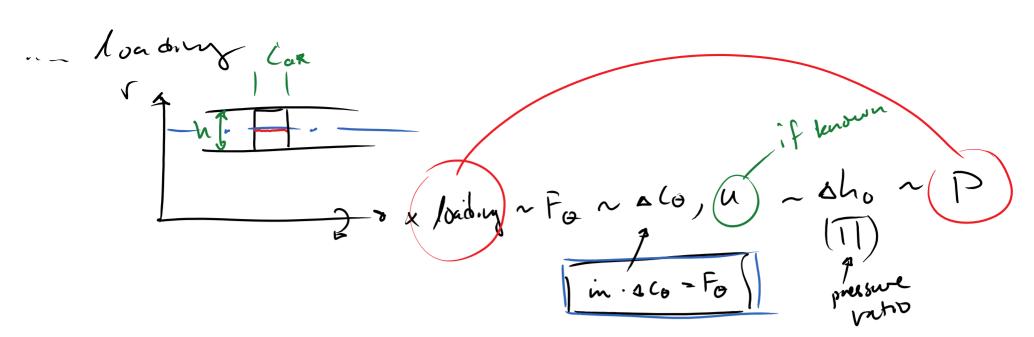
flow quantaties on a line normal to the mean flow direction at about mid-chard

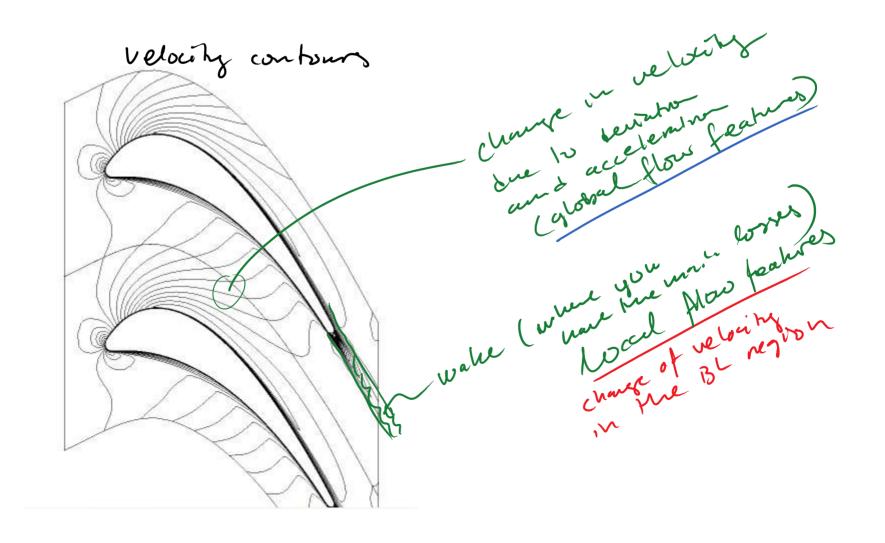






dishibution of static pressure around terbomachineny blades P







- shape of the blade affects the loady

- shape of the loading affects how the BL bevelops - associated with losses

une co-0

washine axis view

for swing curacter

of the SR S reasing