## 3A MEHANIKA FLUIDA

Ilak -sila kojom ocstra fluida djeliyi na povrsimu s

 $P = \frac{|\vec{r}_i|}{5}$  iii  $-d\vec{F} = pd\vec{S}$ (skalarna)  $[Pa] = [\frac{N}{m^2}]$ 

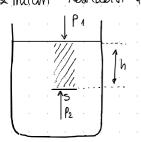
## Pascalor Sukon

- also na televicinu djeluji vanjska F svala tocka fluida mora biti podvignuta istoj sili

Hidraulichi Hak PI= ti P2 = F2 -vayski Hak uslyed promytue sile na tekurinu prenos se jeamako na vve tode fluida i stjenke posnale

Hidrostatski Hak -na čestice fluida djeluje sila teka restación fluid stalne gustole × miran

P1.5+mg=p25

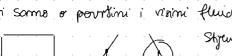


Patm S + Jek · Vek · g = p2S Patm. S + Jee. S. h.g = P23/S

Patm + Stek. hg = B2 -

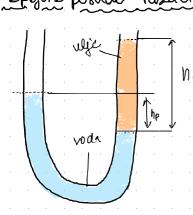
hid nostalski

vovisi some o površini i vinimi fluida



Styenke kompensiraju" rasliku kuju li imali Hakovi Cpokus spojenih ponude)

Spojene posude - rasticite televière



- ista rozina tekuline u svim ponudoma na istoj visini vnjedi SAMO also je guotoća televuline svugoji sedna E

N'n pretpostavljomo da je horizontalan preziel ra tim visinama jednal! (Nolava = Pravane Pplava)

tlak stupca sembjene atmosfere koji djeluje na neku površinu Atmosferski Huk Jorricellijer polus:  $P_{A} = P_{A}$   $P = f_{A} g h$ Parometarsha formula  $P = fgh / \partial \longrightarrow -ap = f(h)gdh$  $\frac{P}{f} = \frac{RT}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{RT}{M} \rightarrow kousteuta,$   $\frac{Pe}{f} = \frac{P(h)}{f(h)} = P(h) - \frac{f}{Po}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow PM = fRT / \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{f(h)} \rightarrow \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{f(h)} \rightarrow \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow \frac{1}{fM}$   $\frac{P}{f} \rightarrow \frac{1}{fM}$   $\frac{P}{f} = \frac{P(h)}{V} \rightarrow \frac{1}{fM}$   $\frac{P}{f} \rightarrow \frac{1}{fM}$   $\frac{P}{f}$  $-\alpha P = P(h) \frac{f_o}{P_o} g dh / P \longrightarrow \frac{-dP}{P} = \frac{f_o}{P_o} g dh / f$  $-\int_{P_0}^{T} \frac{dP}{P} = \int_{0}^{h} \frac{f_0}{P_0} g dh = > \ln\left(\frac{P}{P_0}\right) = \frac{f_0}{P_0} g h / e / \frac{P}{P_0} = e^{\frac{f_0}{P_0} g h}$ Arhumedov zakon i uzgon Arhimedov zerkov - týcho uvonýčno u fluid guls na težiní onoliko boliko teži volumen teknére koji si istisnulo to přelo Uzyon - sila boja ajeluje na hjelo u fluidu zerog rozele <u>hidrostat</u>. Hala (supportuo od ‡gi) P<sub>2</sub>↑  $P_2 - S = P_1 + fg V = P_1 + fg S - h / S$   $P_2 = P_1 + fg h$ Patru +1 = S. P1 = S (Patru + Squid & h) The sime so (Palm + Squid gh)

F2 = Sing = S (Palm + Squid g (ntah))

T2 - F1 = Fuzzon

TP2 ntah

Fu = Squid g (ntah))

Fu = Squid g Vijdo Fu = Stewa 9 Vydo ales je funtil Visoad mode = Vurangen - + + = Fu Snych · Vryclo of = Sewid Vyclo of -Price = Ifluid

