

We must know It over the area A Doen't conform w/ control muss Doesn't move way Generic control rolume

+ SEMAA - Jedy = 25d4 - 25d4 - 35d4 - 577dA Dand 2) are identical treas coincide

= = ST. RdA $(\mathbb{I}^{\circ}\mathbb{R} = |\mathfrak{U}||\mathfrak{n}|\cos\theta) \rightarrow (\mathbb{I}^{\circ}b)$ Total influx of Rate & increase thorough The muss of system - IsadA EsaA Surface

-(1. v. dA) Rate of loss of volu from Cont. vol

infux 5-0 W. P. W. control mass

Differential formulation $\int \mathcal{A} \cdot \mathcal{R} dA =$ Jodd H

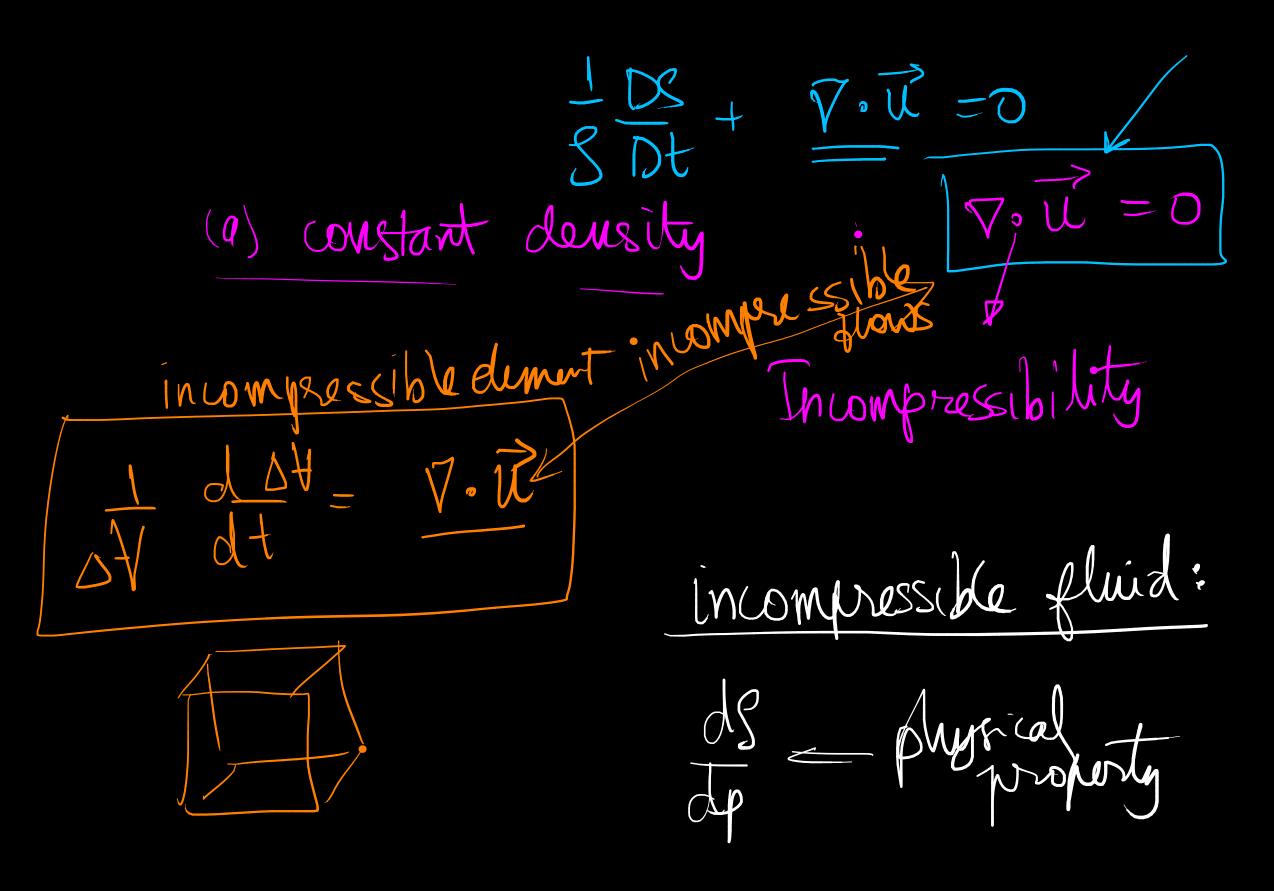
$$\int_{2}^{2} \frac{dt}{dt} + \int_{2}^{2} \frac{dt}{dt} = 0$$

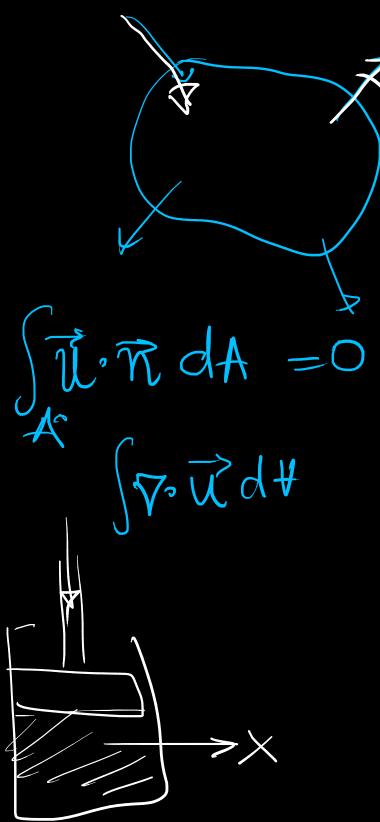
$$\nabla \cdot (SU) = \frac{2}{2x_i}(SUi) = Ui \frac{2S}{2x_i} + \frac{SUi}{2x_i} = U \cdot \nabla S$$

$$\nabla \cdot (SU) = (U \cdot \nabla)S + \frac{1}{2x_i} = \frac{1}{2x_i} + \frac$$

SUNDA SWINDA SWINDA SWINDA A Sdy = SE-WORDA when $\vec{b} = \vec{u}$? $\vec{d} = 0$ STAA + STAA

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(In compressible Variable density Incompressible flow

 $\vec{L} = \nabla \times \vec{P}$ Helmholte decomposition $\vec{T} = 9774 (25 \text{alars})$

J. K. M. M.

Plane I

$$\frac{2D}{2u} + \frac{2v}{2y} = \frac{2}{2u} \left(\frac{2v}{2y} + \frac{2}{2u} \right) \frac{2v}{2u}$$

$$= \frac{2v}{2u} + \frac{2v}{2y} = \frac{2v}{2u} + \frac{2v}{2u} \frac{2v}{2u}$$

$$= \frac{2v}{2u} + \frac{2v}{2u} = \frac{2v}{2u} + \frac{2v}{2u} \frac{2v}{2u}$$

$$= \frac{2v}{2u} + \frac{2v}{2u} = \frac{2v}{2u} + \frac{2v}{2u} = \frac{2v}{2u} = \frac{2v}{2u}$$

$$= \frac{2v}{2u} + \frac{2v}{2u} = \frac{2v}{2u} + \frac{2v}{2u} = \frac{2$$

