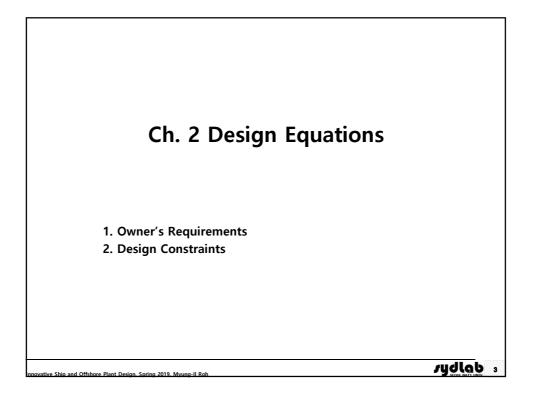
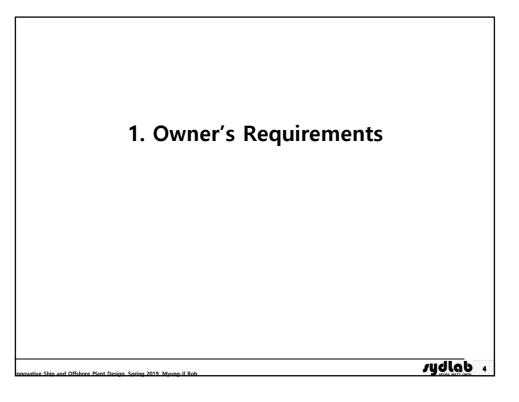
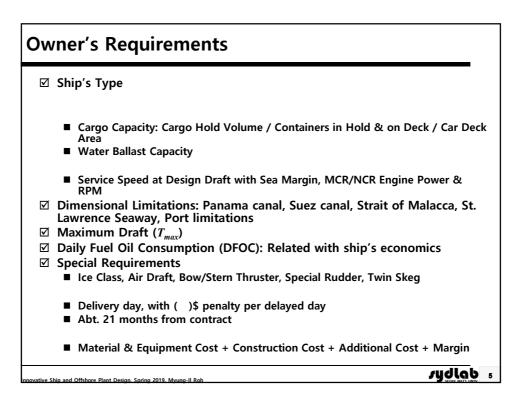
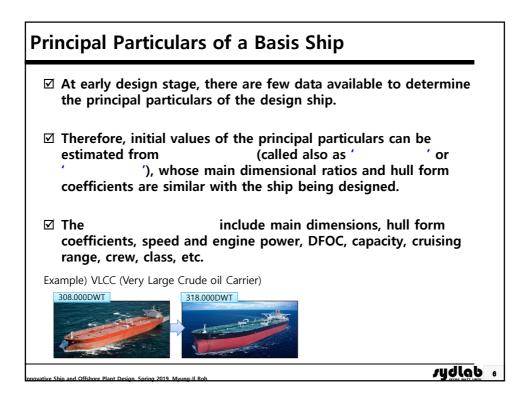


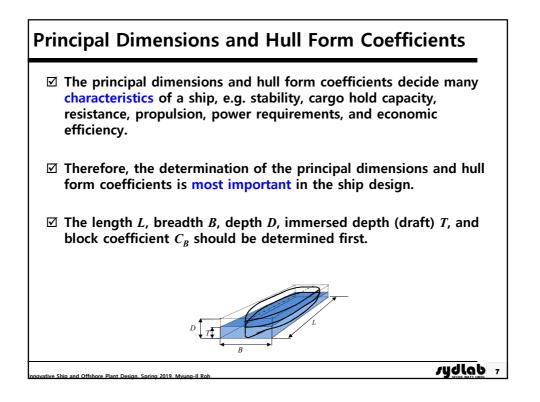
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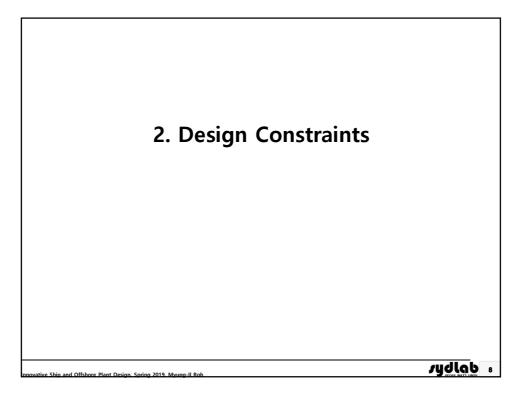


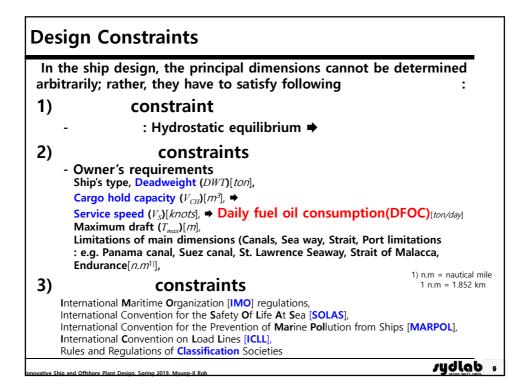


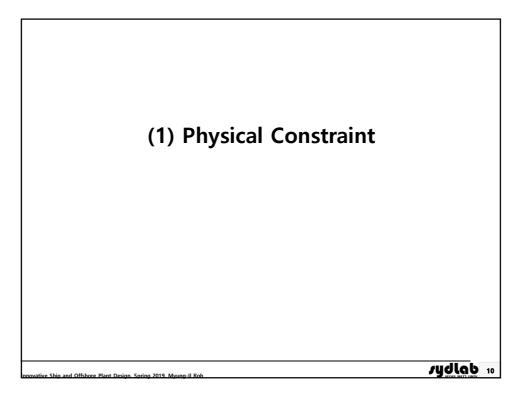


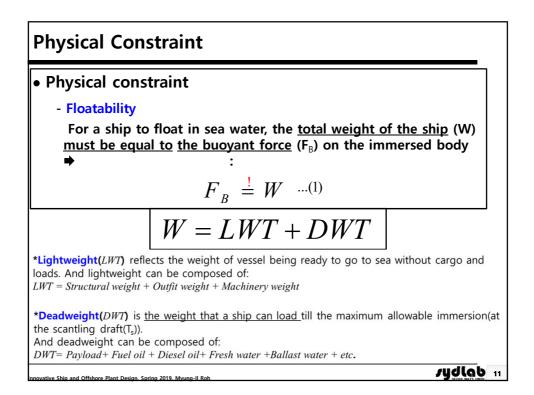


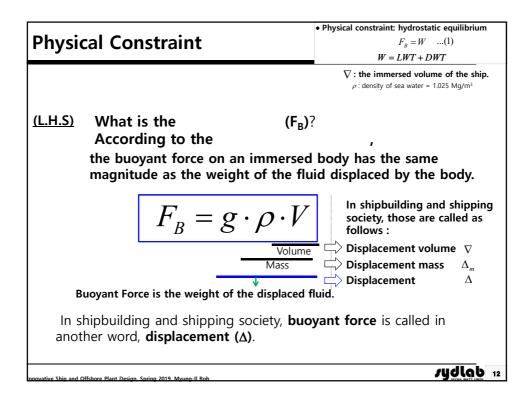


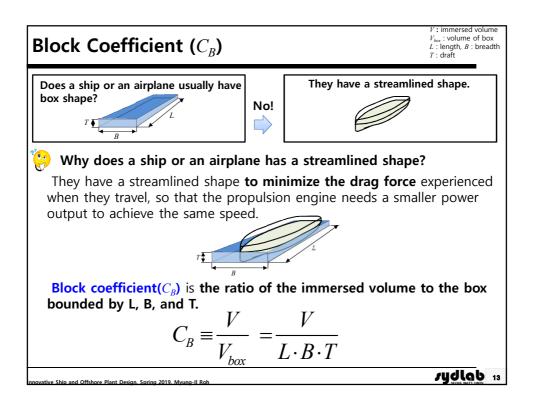




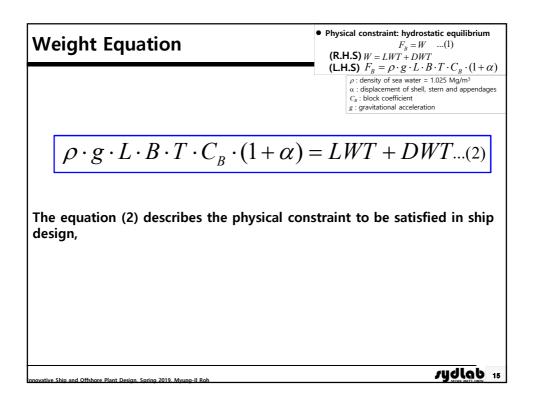


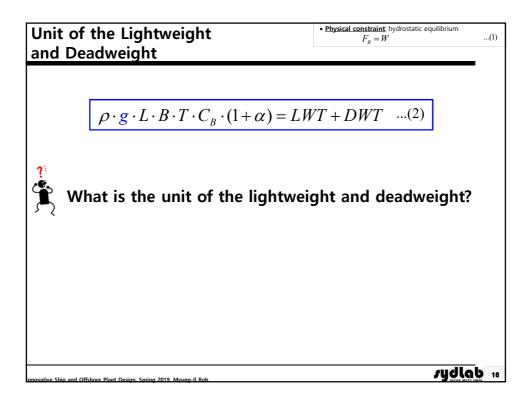


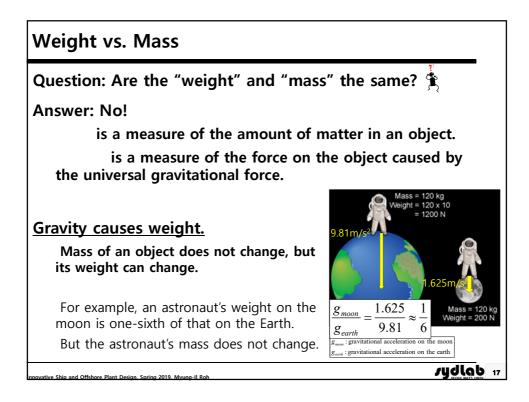


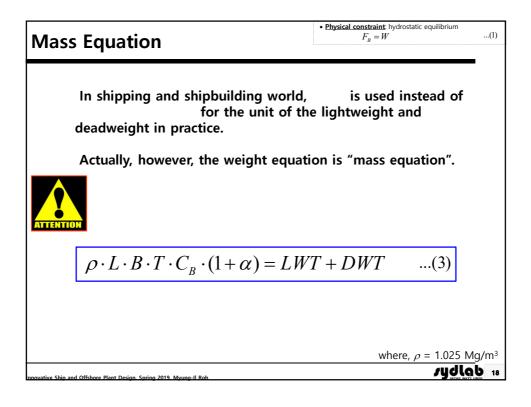


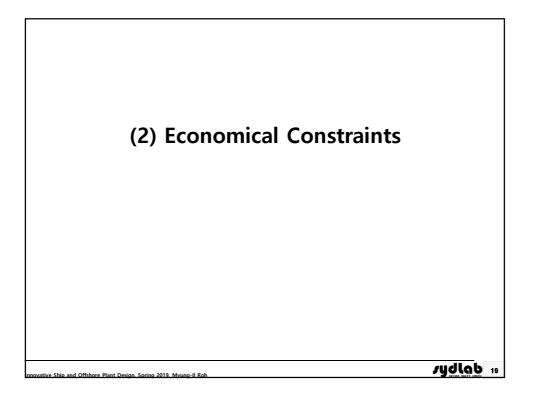
| Shell Appendage Allowance | $C_B = \frac{V}{L \cdot B \cdot T}$ | V: immersed volume V_{bax} : volume of box L: length, B: breadth T: draft C_{B} : block coefficient |
|---|-------------------------------------|---|
| The immersed volume of the ship can be expressed | d by block c | oefficient. |
| $V_{molded} = L \cdot B \cdot T \cdot C_B$ | | |
| In general, we have to consider the displacement of shell plating and appendages such as propeller, rudder, shaft, etc. additionally. Thus, The total immersed volume of the ship can be expressed as | | |
| following: $V_{total} = L \cdot B \cdot T \cdot C_B \cdot (1 + C_B)$ | α) | |
| Where the hull dimensions length L, beam B, and dimensions of the immerged hull to the inside of the | | |
| thus α is molded volume to the actual volume by accounting the shell plating and appendages (typically about 0, vessels). | ng for the v | |
| $\Box F_{B} = g \cdot \rho \cdot V_{total} = \rho \cdot g \cdot L \cdot B \cdot$ | $T \cdot C_B \cdot$ | $(1+\alpha)$ |
| nnovative Ship and Offshore Plant Design. Spring 2019. Myung-II Roh | | rydlab 14 |

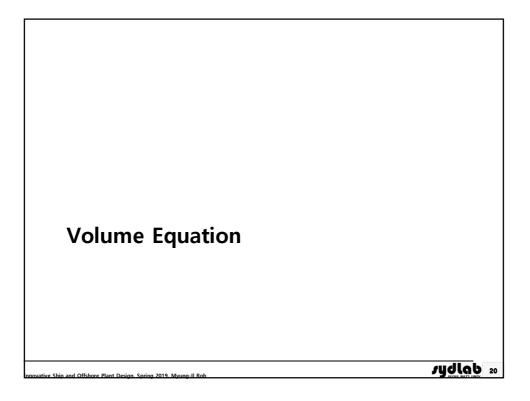


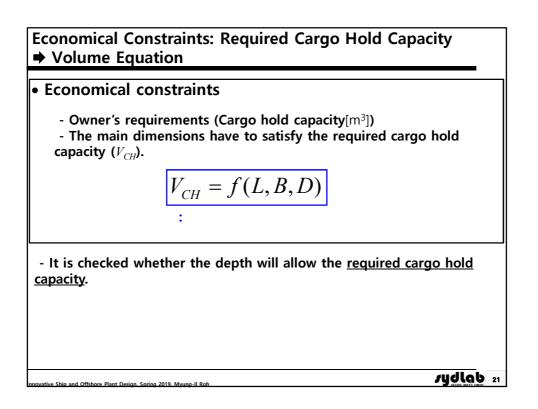


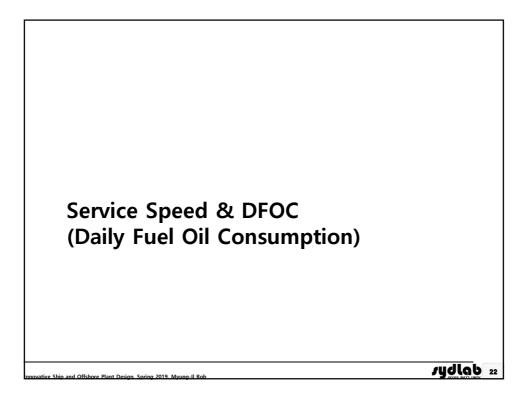


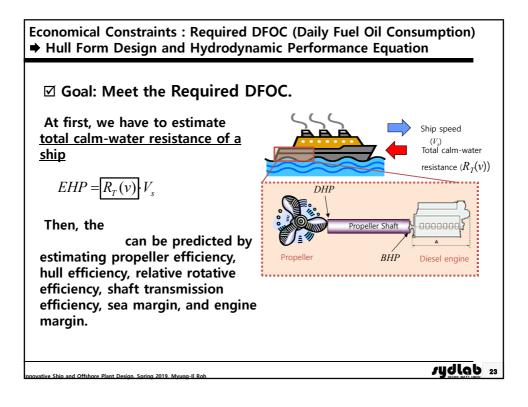


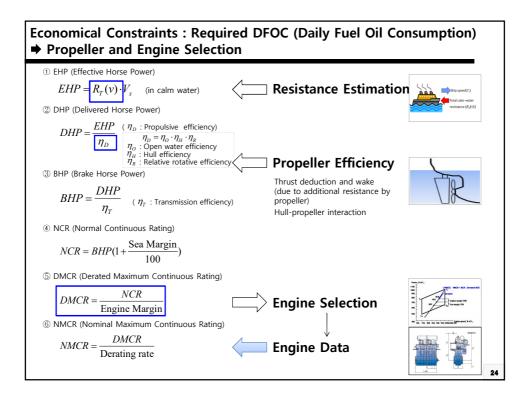


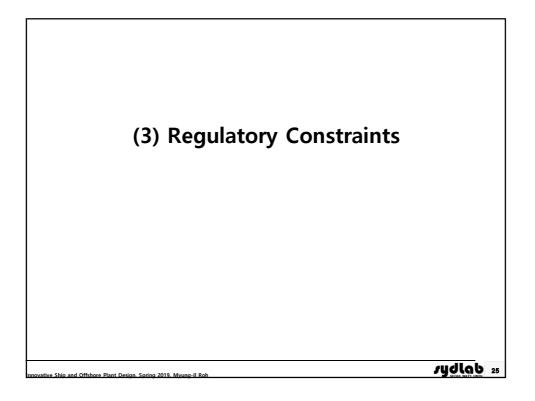


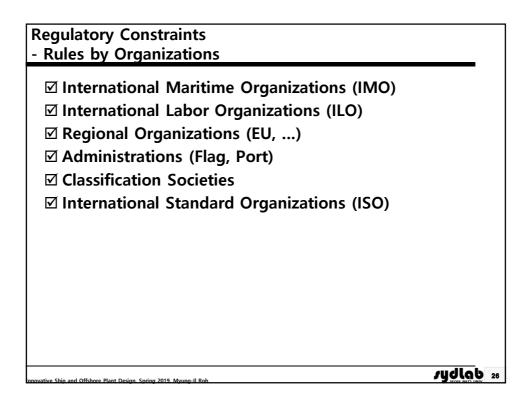


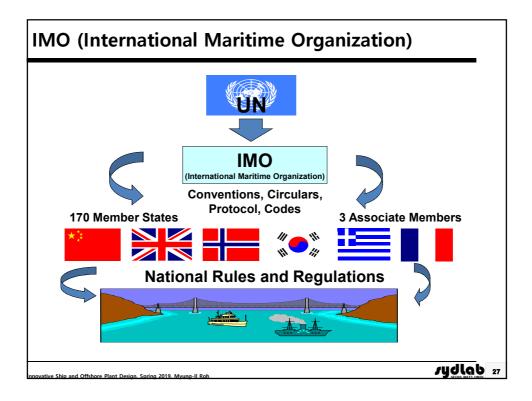




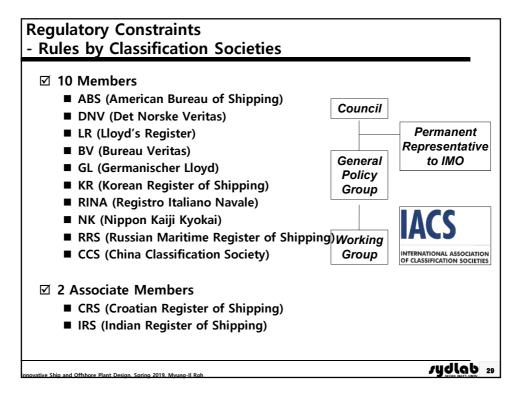


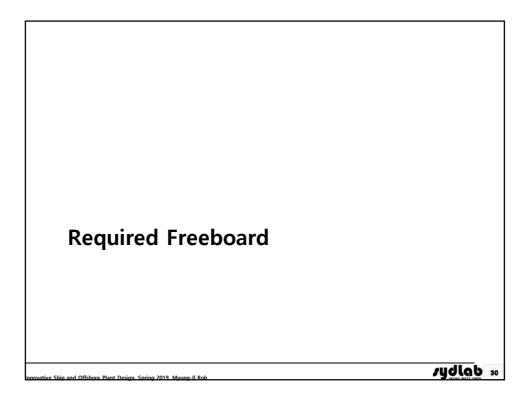


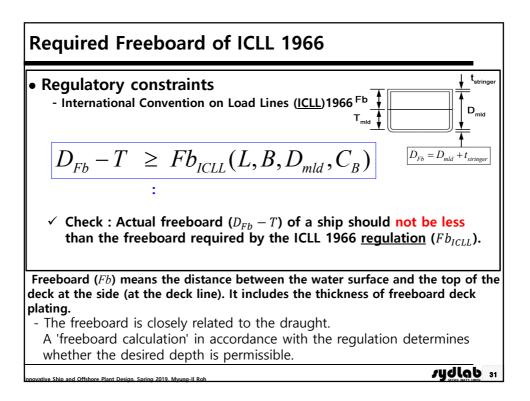


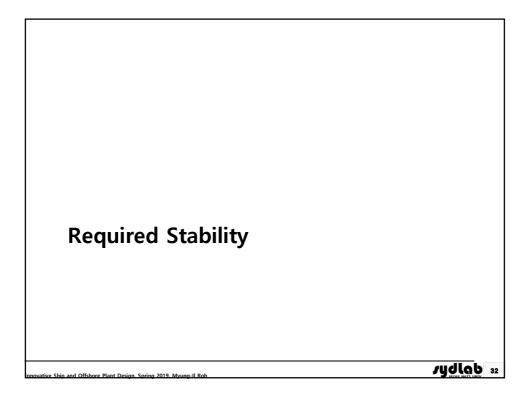


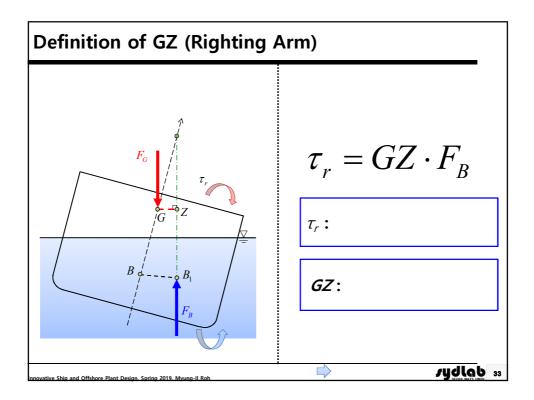
| IMO Instruments | | |
|---|------------|----|
| ☑ Conventions | | |
| / / / COLREG / ITC / AFS / BWI | И | |
| ✓ Protocols | | |
| MARPOL Protocol 1997 / ICLL Protocol 1988 | | |
| ☑ Codes | | |
| ■ ISM / LSA / IBC / IMDG / IGC / BCH / BC / GC | | |
| ☑ Resolutions | | |
| Assembly / MSC / MEPC | | |
| ☑ Circulars | | |
| MSC / MEPC / Sub-committees | | |
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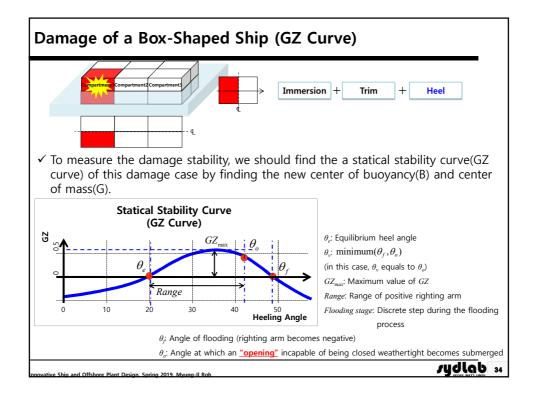


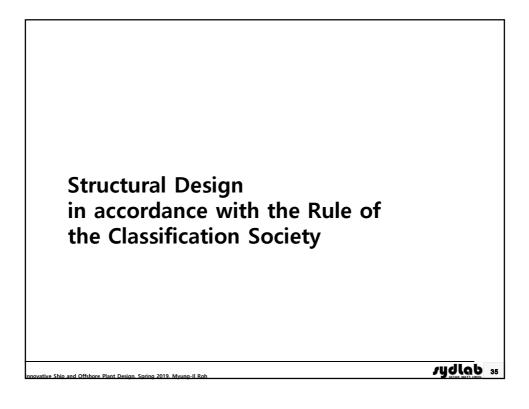


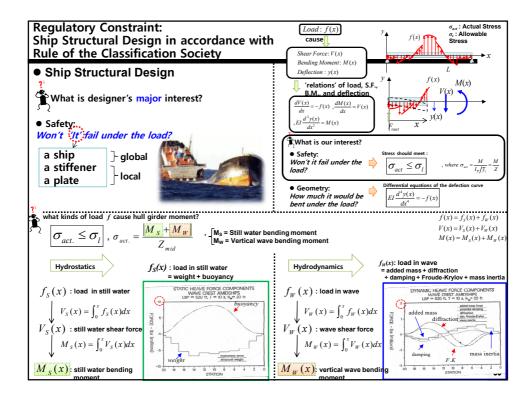


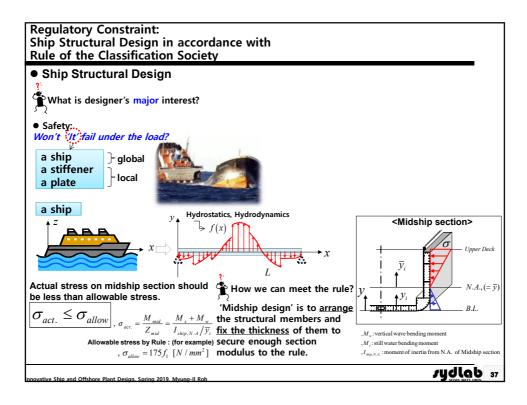


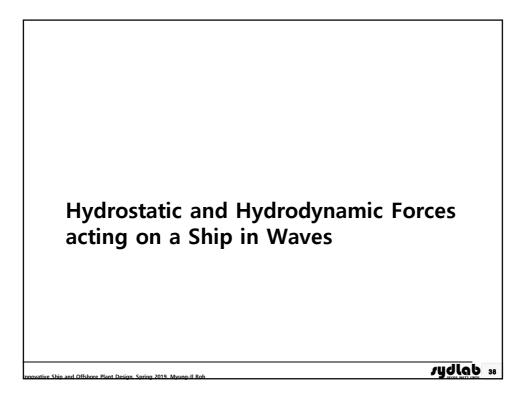












| Equations of Motion of a Fluid Element - From Cauchy Eq. to Bernoulli Eq. |
|--|
| $\begin{array}{c} & \begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $ |
| ① Newtonian fluid: Fluid whose stress versus strain rate curve is linear. |
| ② Stokes assumption: Definition of viscosity coefficient (μ , λ) due to linear deformation and isometric expansion |
| (3) Inviscid fluid 1) RTT: Reynolds Transport Theorem |
| (c) Irrotational flow $r = \frac{d^2 r}{dt}$. |
| ⑤ Incompressible flow |
| * Lagrangian specification of the flow field: a way of looking at fluid motion where the observer follows an individual fluid parcel as it moves through space and time. * Eulerian specification of the flow field: a way of looking at fluid motion that focuses on specific locations in the space through which the fluid flows as time passes. |
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