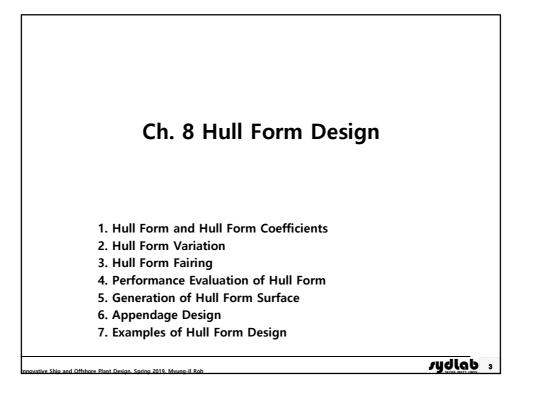
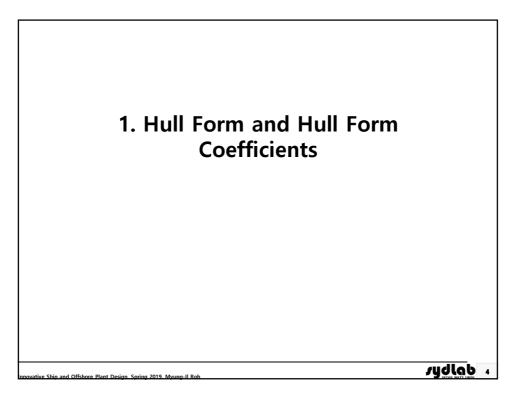
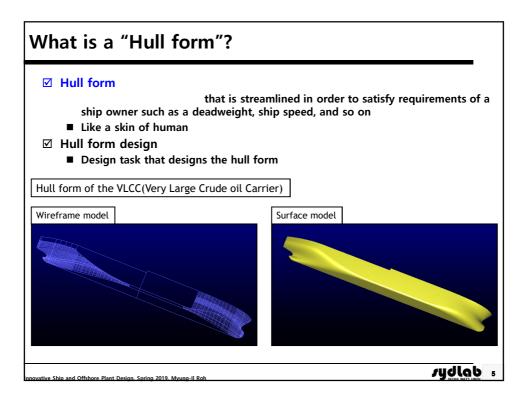
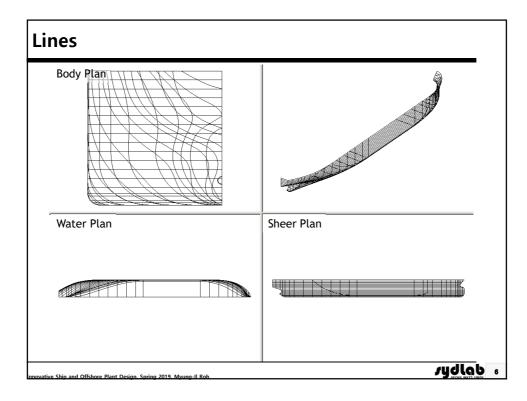


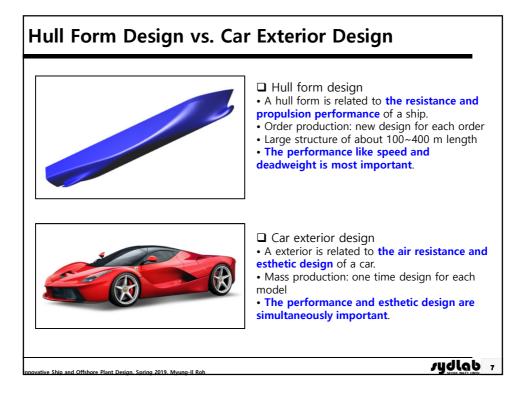
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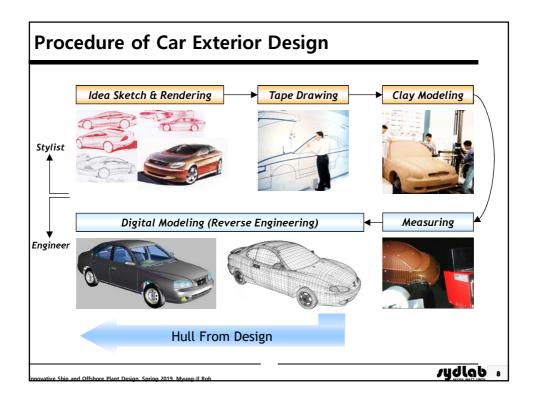


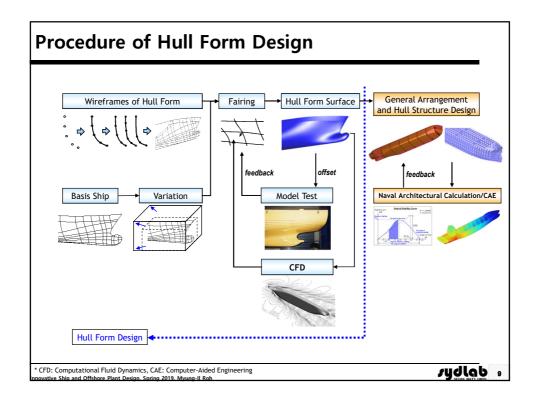


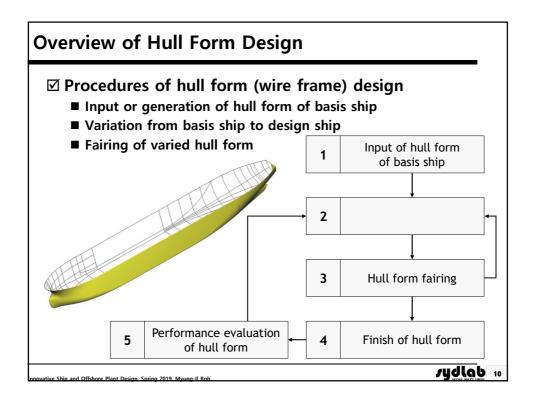


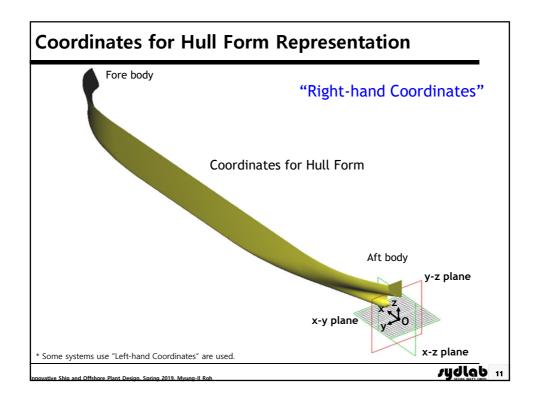


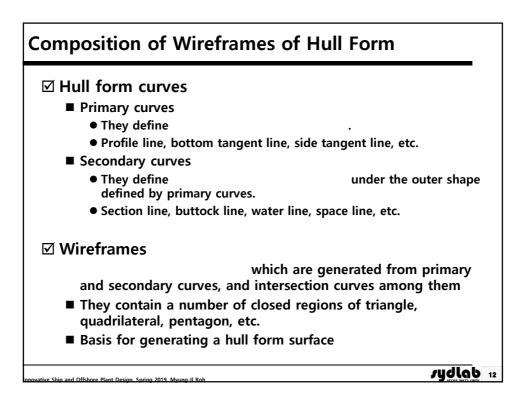


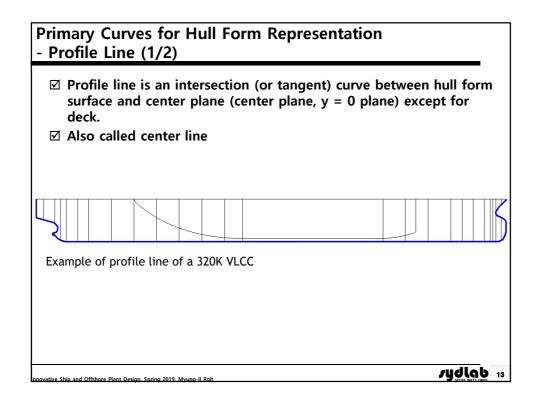


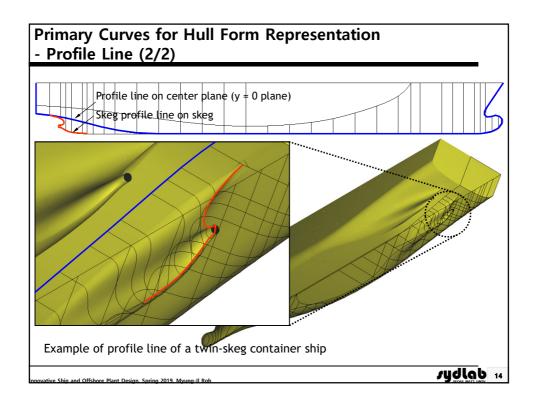


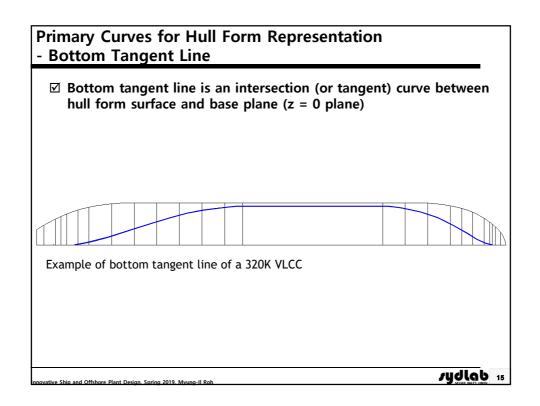


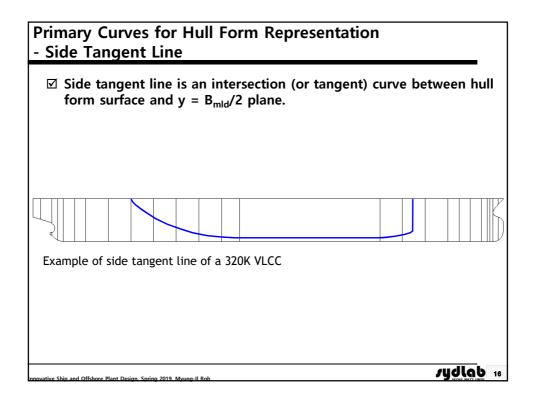


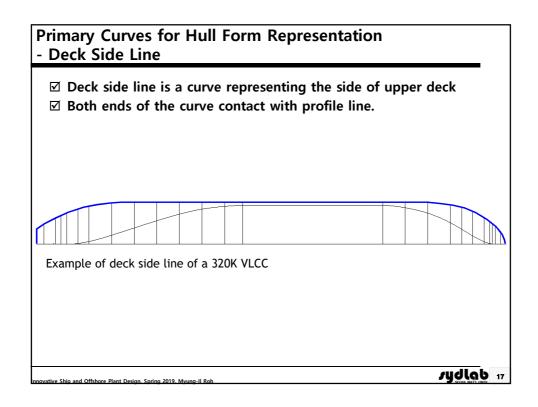


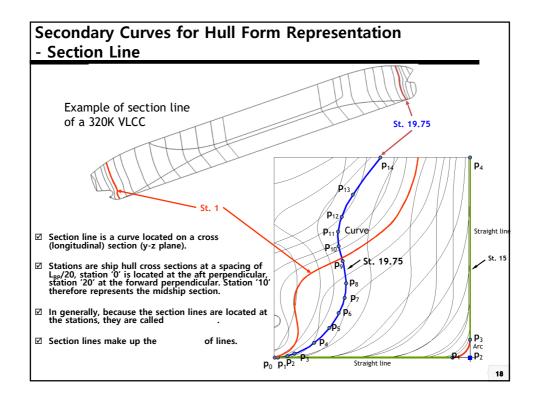


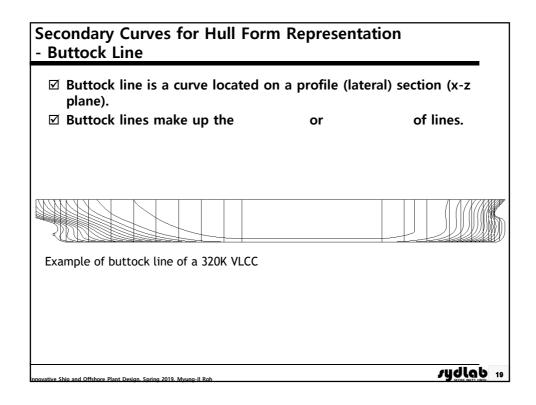


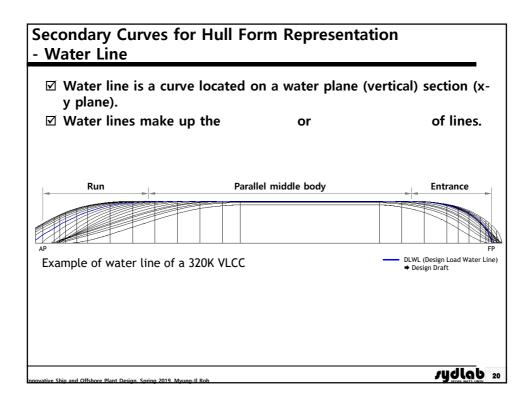


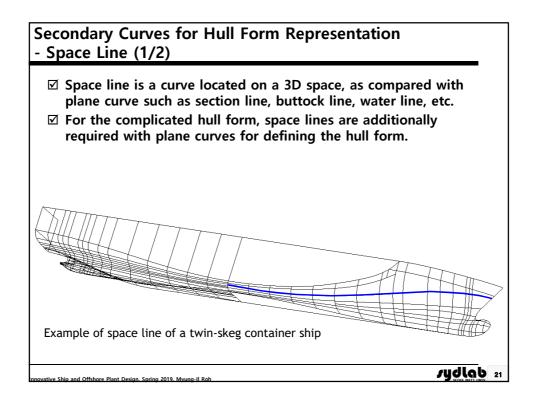


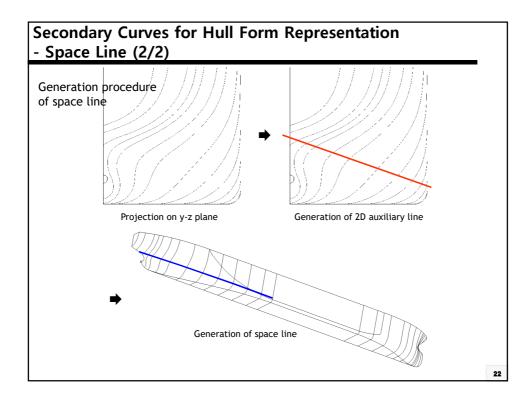


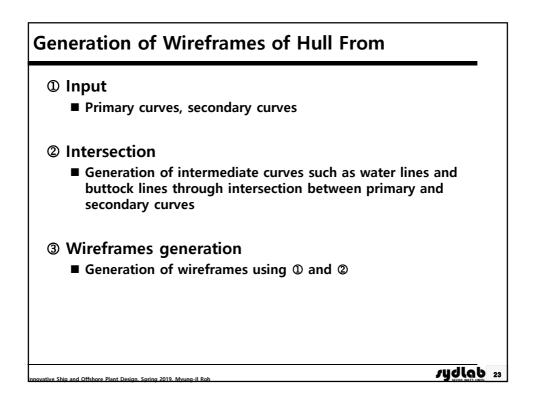


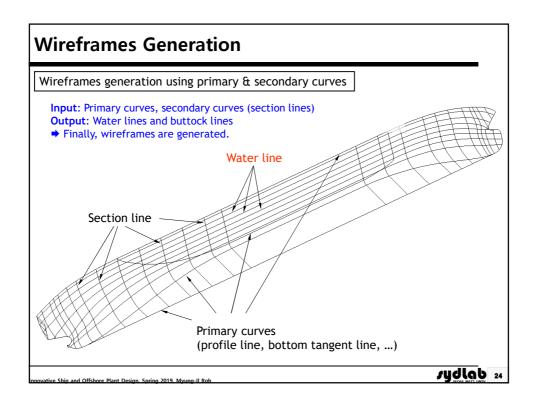


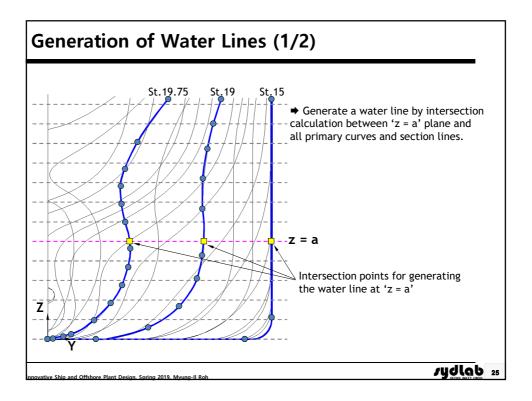


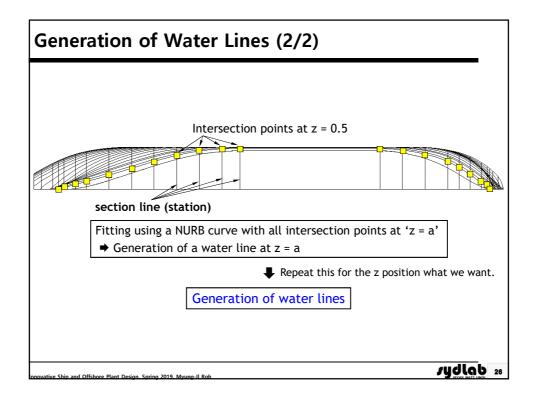


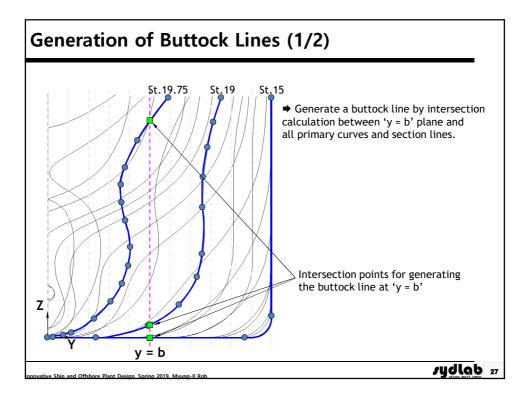


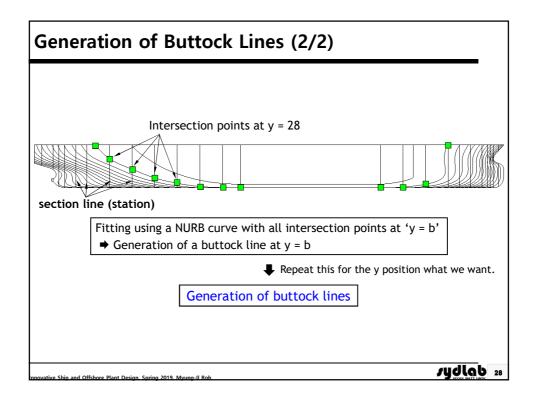


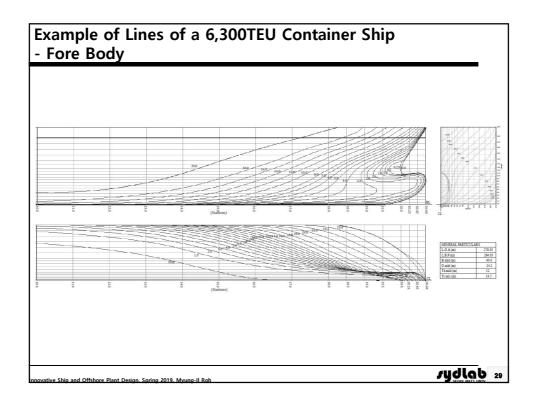


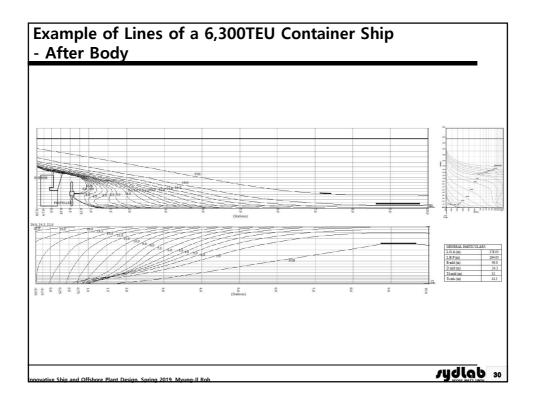


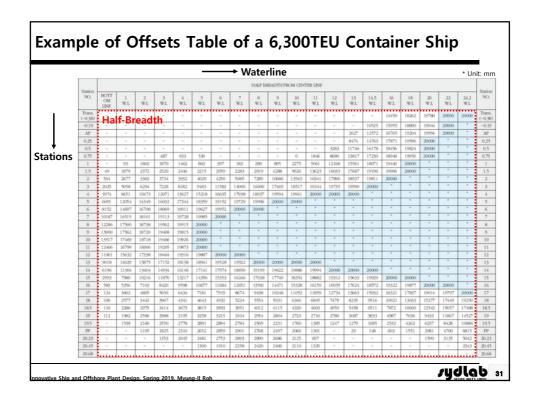


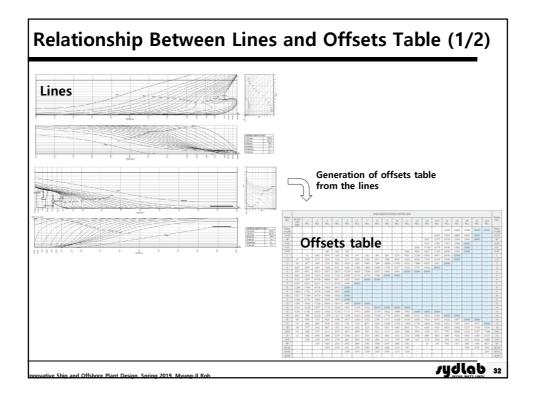


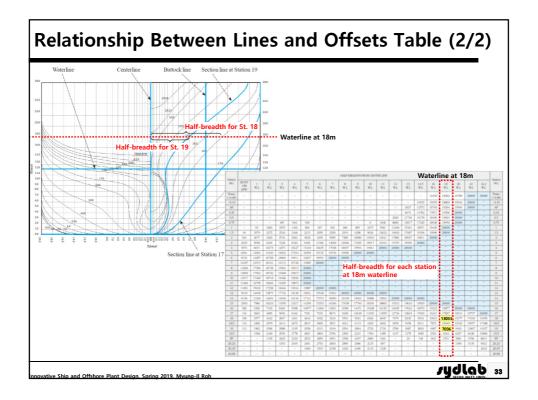


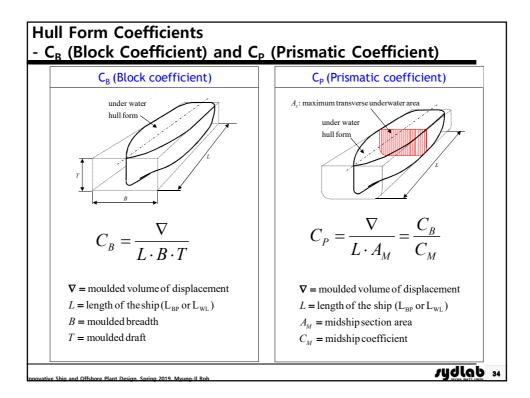


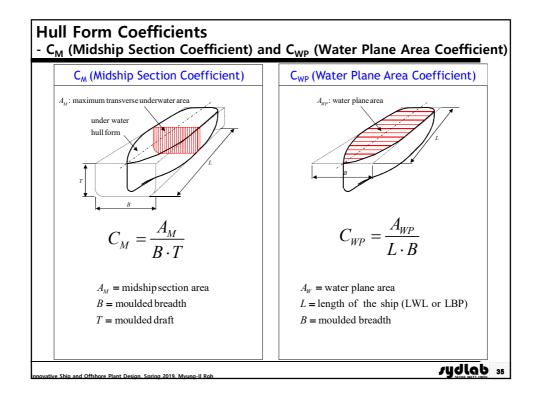


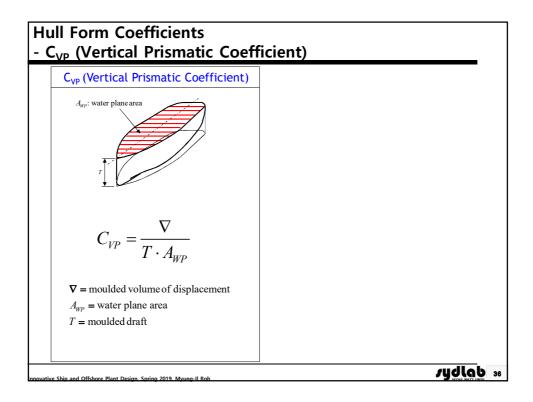


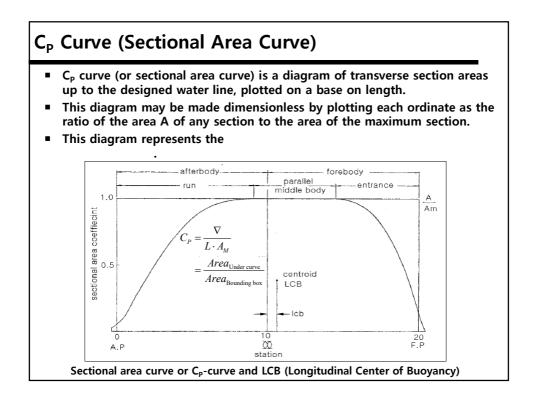


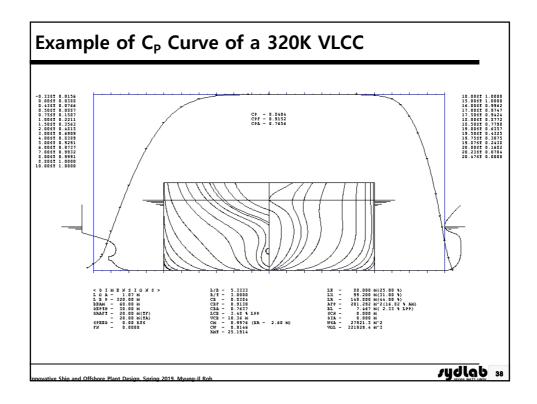


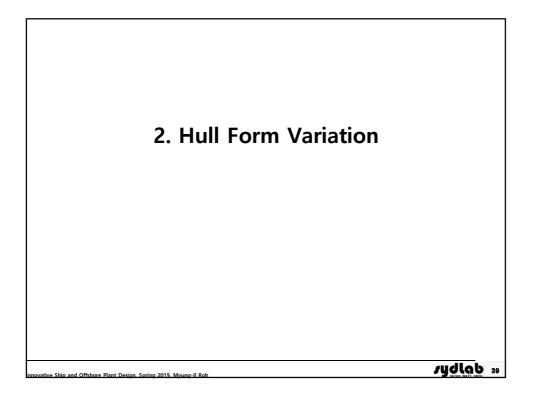


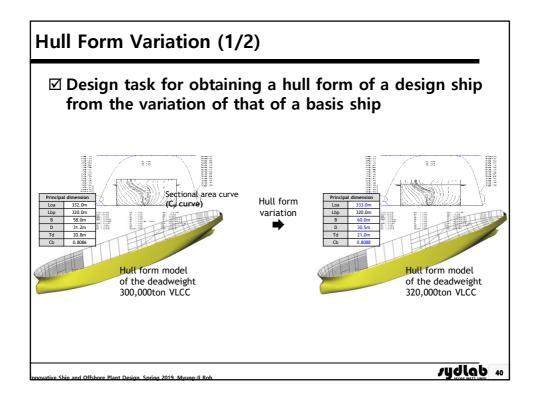


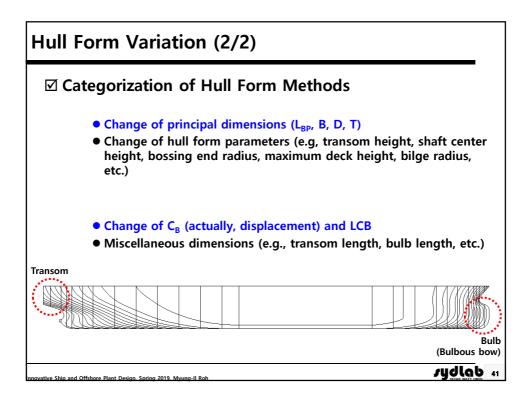


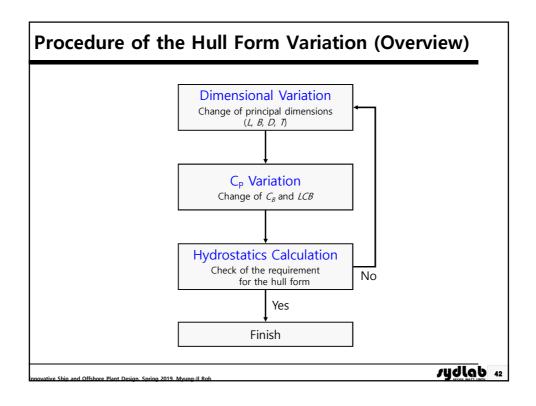




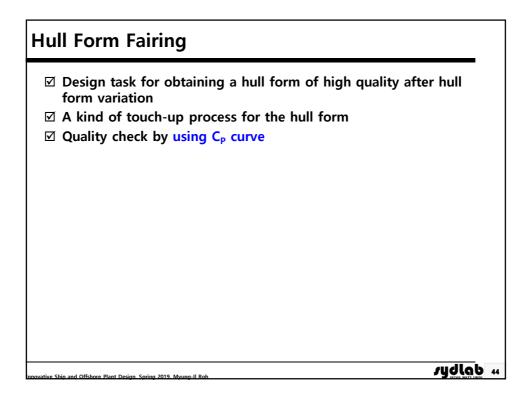


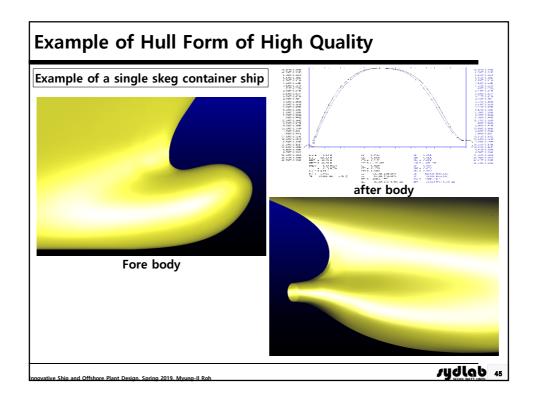


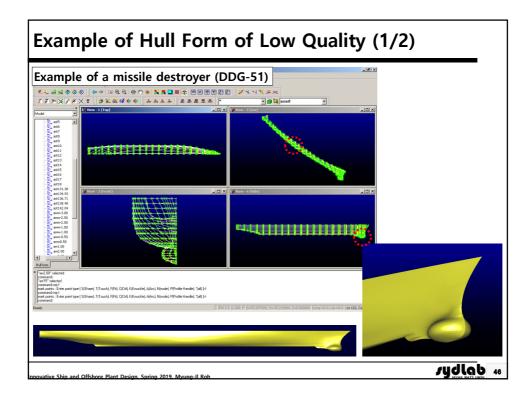


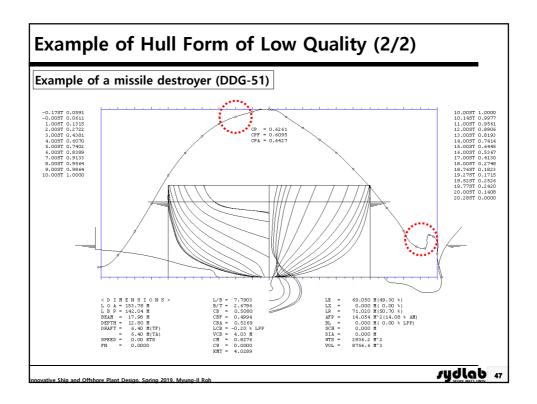


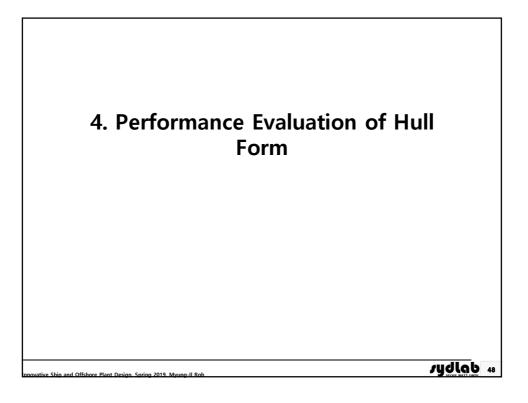


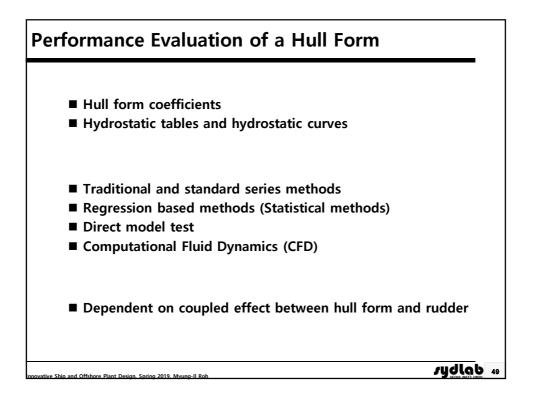




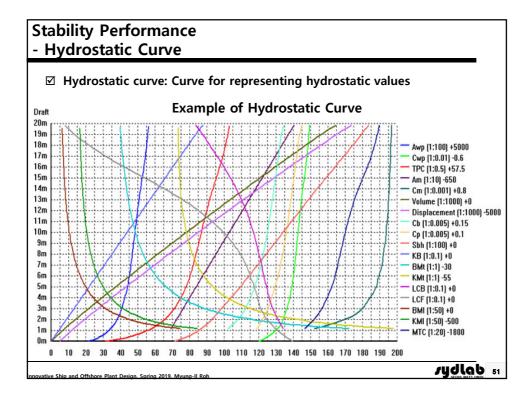


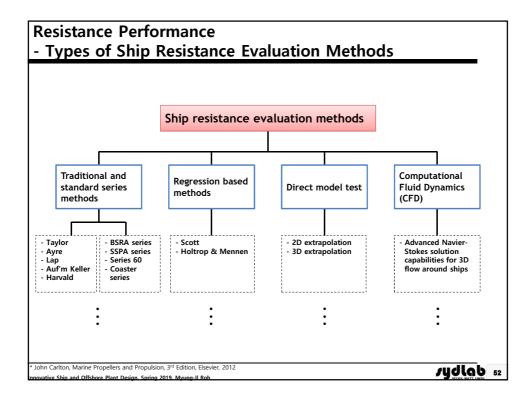


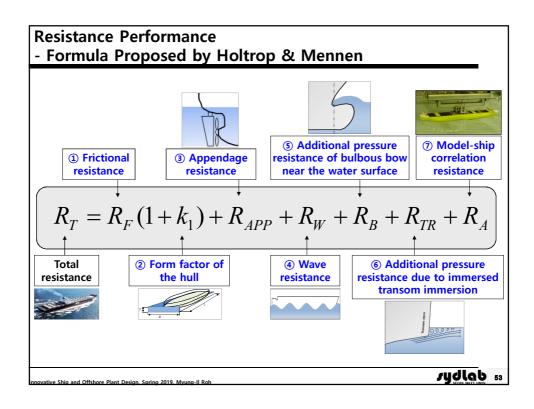


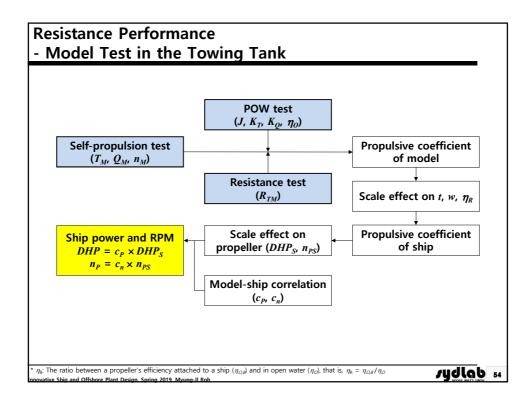


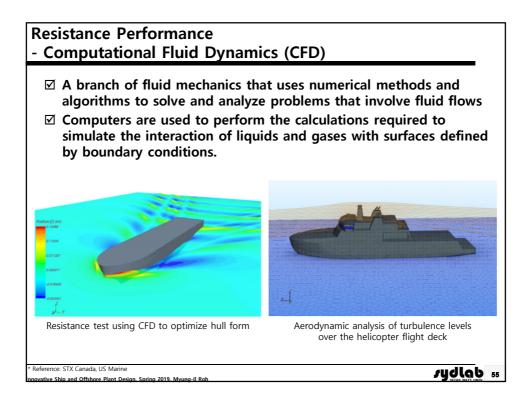
| Stability Performance   |
|---|
| - Hydrostatic Values  |
| <ul> <li>Hydrostatic Values</li> <li>□ Draft<sub>Mld</sub>, Draft<sub>Scant</sub>: Draft from base line, moulded / scantling (m)</li> <li>□ Volume<sub>Mld</sub>(∇), Volume<sub>Ext</sub>: Displacement volume, moulded / extreme (m<sup>3</sup>)</li> <li>□ Displacement<sub>Mld</sub>(Δ), Displacement<sub>Ext</sub>: Displacement, moulded / extreme (ton)</li> <li>□ LCB: Longitudinal center of huoyancy from midship (sign: - Aft / + Forward)</li> <li>□ LCF: Longitudinal center of floatation from midship (sign: - Aft / + Forward)</li> <li>□ VCB: Vertical center of huoyancy above base line (m)</li> <li>□ TCB: Transverse center of huoyancy from center line (m)</li> <li>□ KM<sub>T</sub>: Transverse metacenter height above base line (m)</li> <li>□ KM<sub>L</sub>: Longitudinal metacenter height above base line (m)</li> <li>□ MTC: Moment to change trim one centimeter (ton-m)</li> <li>□ TPC: Increase in Displacement<sub>Mld</sub> (ton) per one centimeter immersion</li> <li>□ WSA: Wetted surface area (m<sup>2</sup>)</li> <li>□ C<sub>B</sub>: Block coefficient</li> <li>□ C<sub>W</sub>: Water plane area coefficient</li> <li>□ C<sub>W</sub>: Midship section area coefficient</li> <li>□ C<sub>W</sub>: Prismatic coefficient</li> <li>□ Trim: Trim(= after draft – forward draft) (m)</li> </ul> |
|   |
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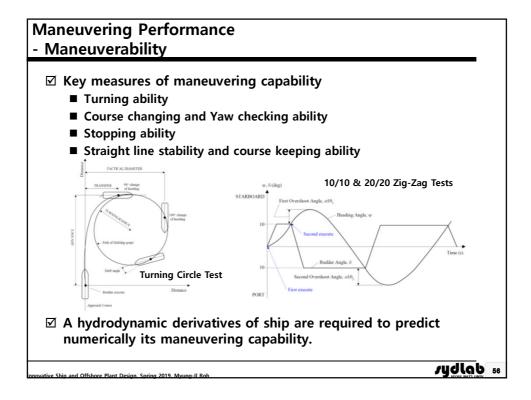


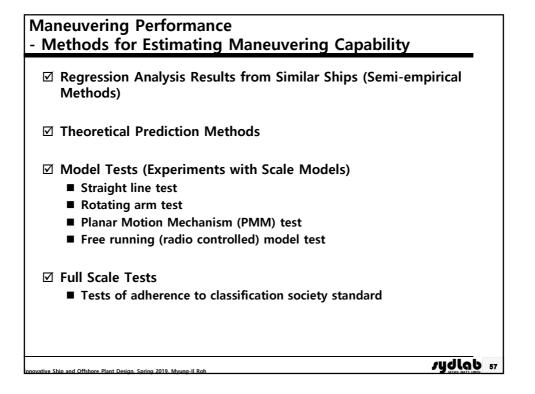




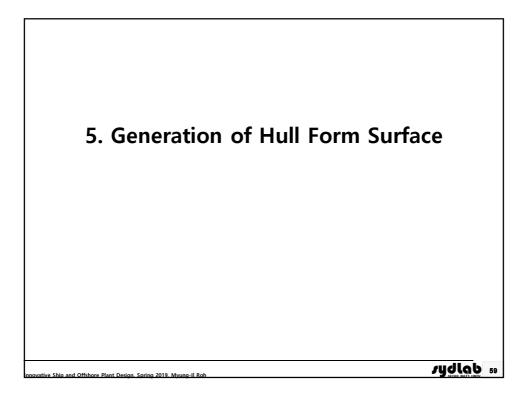


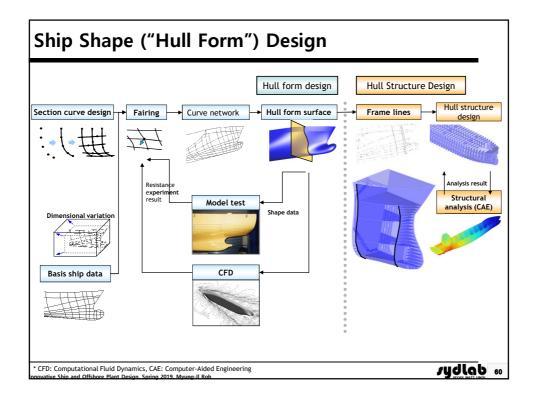


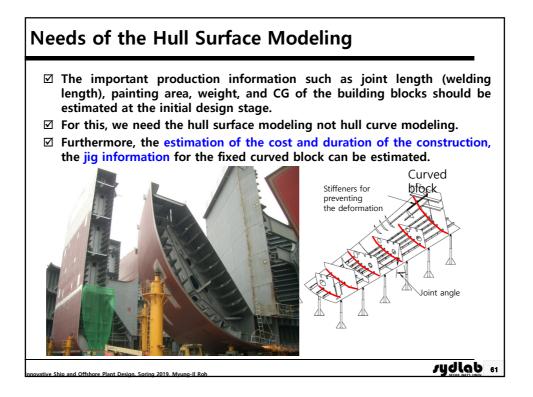


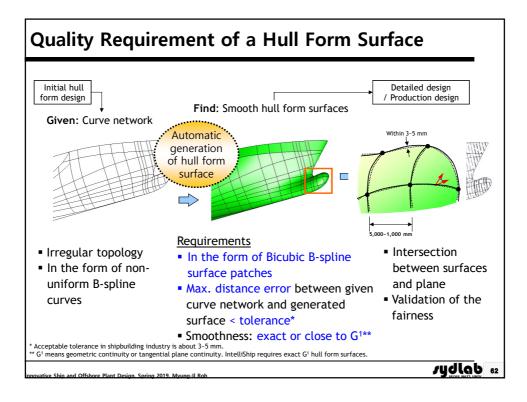


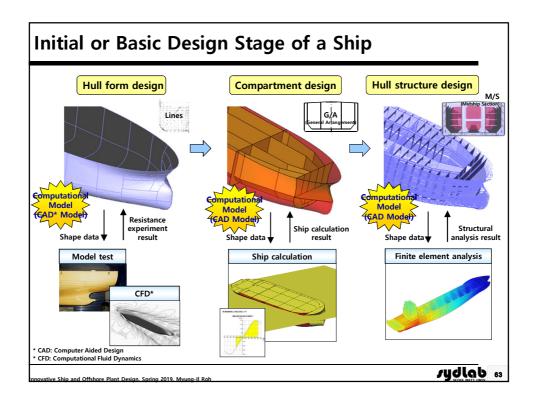
| Measure of<br>Maneuverability                            | Criteria and Standard                                | Maneuver               | IMO Standard                             | ABS Guide<br>Requirement                  |
|--|--|------------------------|--|---|
|  | Required f   | for Optional Class Not | tation                                   |   |
| Turning Ability  | Tactical Diameter                                    | Turning Circle         | TD < 5L                                  | Rated<br>$Rtd \ge 1$                      |
|  | Advance  |                        | Ad < 4.5L                                | Not rated<br>Ad < 4.5L                    |
| Course Changing and<br>Yaw Checking Ability              | First Overshoot Angle                                | 10/10 Zig-zag test     | $\alpha 10_1 \leq f_{101}(L\mathcal{V})$ | Rated<br>$Rt\alpha_{10} \ge 1$            |
|  | Second Overshoot Angle                               |                        | $\alpha 10_2 < f_{102}(L/V)$             | Not rated<br>$\alpha 10_2 < f_{102}(L/V)$ |
|  | First Overshoot Angle                                | 20/20 Zig-zag test     | $\alpha 20_1 \le 25$                     | Rated<br>$Rt\alpha_{20} \ge 1$            |
| Initial Turning Ability                                  | Distance traveled before<br>10-degrees course change | 10/10 Zig-zag test     | $\ell_{10} \le 2.5L$                     | Rated<br>$Rti \ge 1$                      |
| Stopping Ability   | Track Reach  | Crash stop             | $TR < 15L^{(1)}$                         | Not rated<br>$TR \le 15L^{(1)}$           |
|  | Head Reach   |                        | None                                     | Rated<br>$Rts \ge 1$                      |
|  | Recommended, Not                                     | Required for Optional  | Class Notation                           |   |
| Straight-line Stability<br>and Course Keeping<br>Ability | Residual turning rate                                | Pull-out test          | $r \neq 0$                               | Not rated $r \neq 0$                      |
|  | Width of instability (2)<br>loop                     | Simplified spiral      | $\alpha_U \leq f_u(L/V)$                 | Not rated<br>$\alpha_U \leq f_u(L/V)$     |

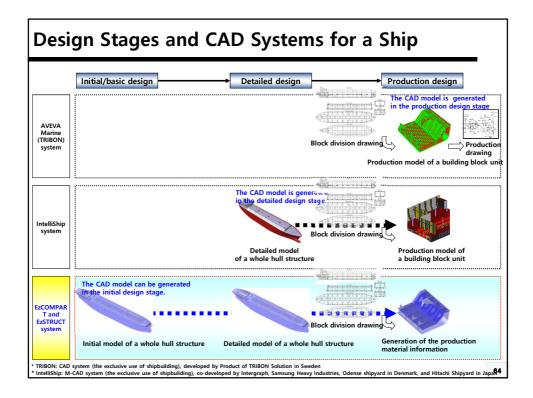


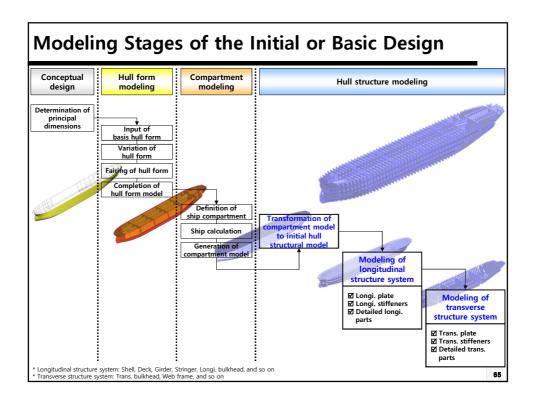


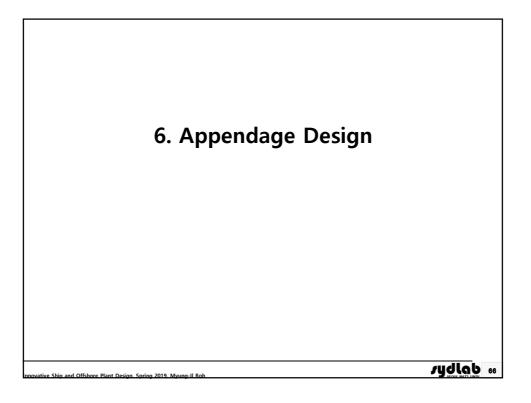


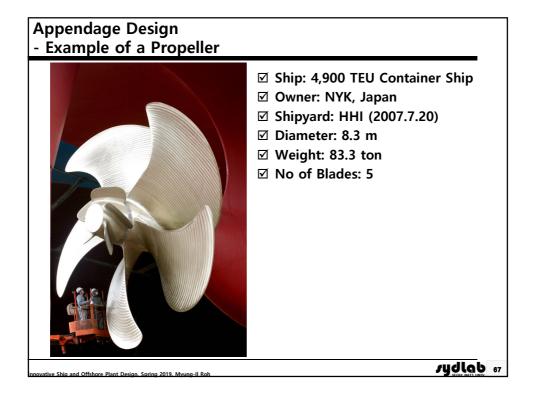


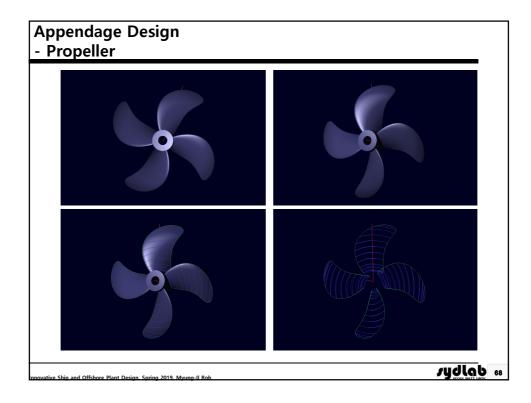


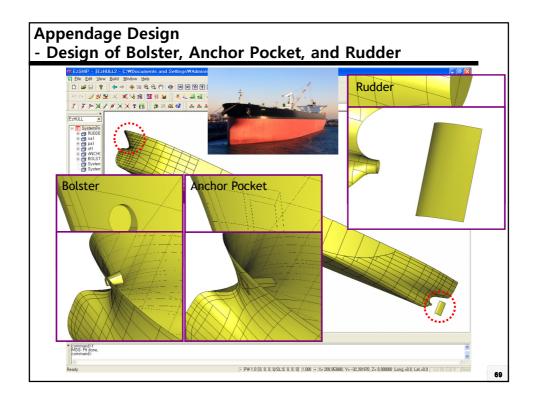


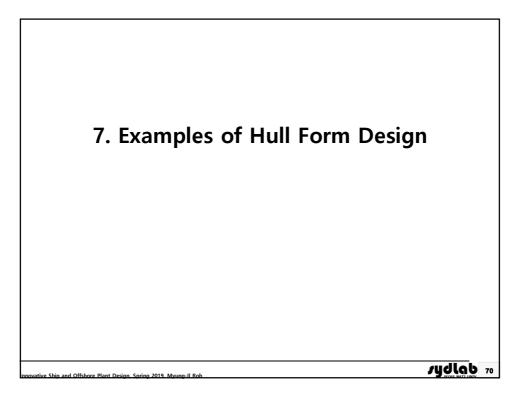




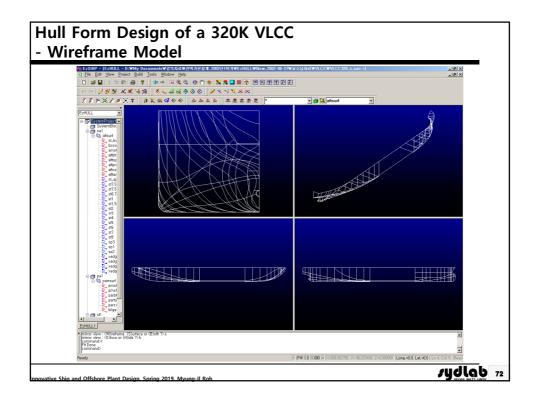


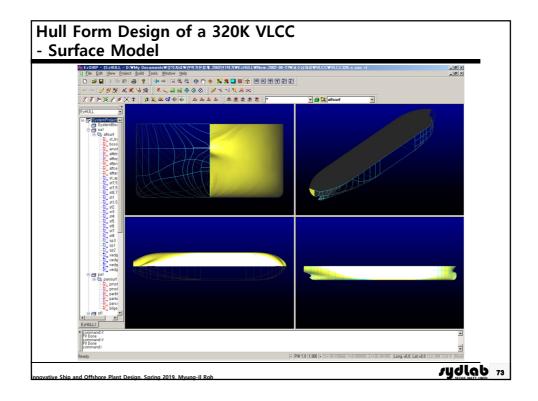


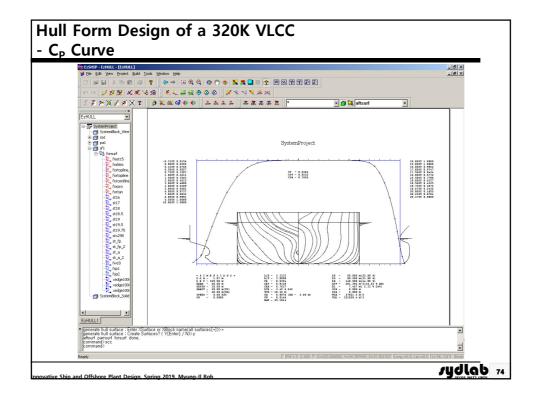




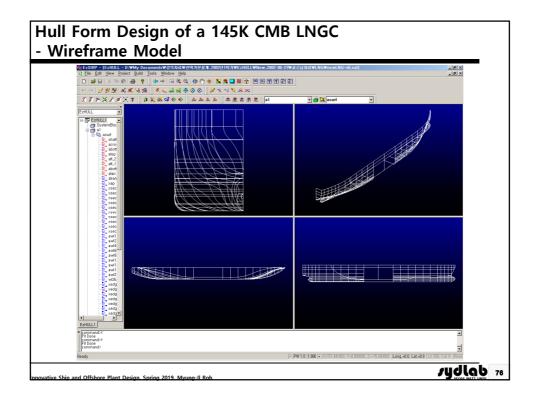
| Principal Particula     | ars     |                      |        |
|-------------------------|---------|----------------------|--------|
| Iter                    |         | Value                | Remark |
|                         | LOA     | 332.0 m              |        |
|                         | LBP     | 320.0 m              |        |
| Principal<br>Dimensions | В       | 60.0 m               |        |
| Dimensions              | D       | 30.5 m               |        |
|                         | Td / Ts | 21.0 / 22.5 m        |        |
| Cargo Capacity          |         | 320,000 MT           | at Ts  |
| Speed                   |         | 16 knots             | at Td  |
|                         | Туре    | SULZER 7RTA84T-D     |        |
| Main Engine             | MCR     | 39,060 PS x 76.0 rpm |        |
|                         | NCR     | 35,150 PS x 73.4 rpm |        |
| Propeller Diameter      |         | 10.2 m               |        |

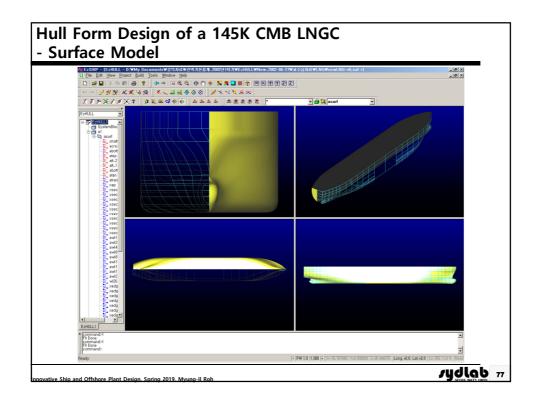




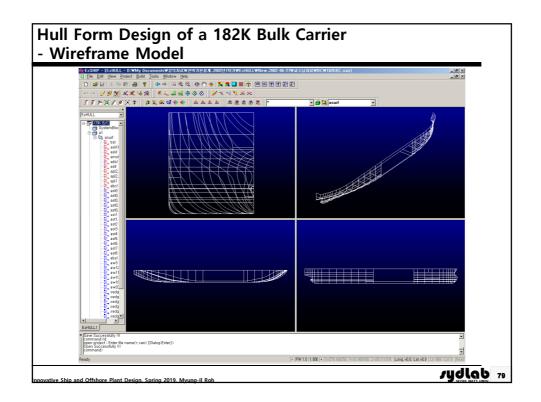


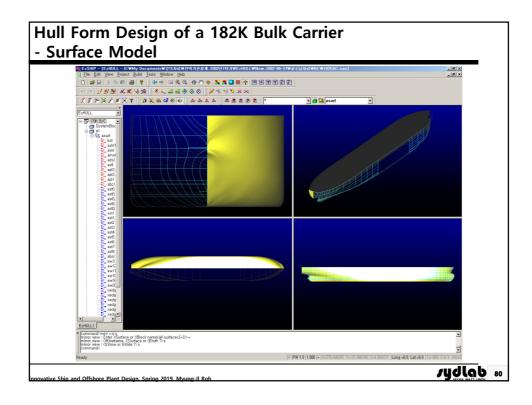
| Dringinal Darticula     |         |                      |        |
|-------------------------|---------|----------------------|--------|
| Principal Particula     | 15      |                      |        |
| Item                    |         | Value                | Remark |
|                         | LOA     | 282.6 m              |        |
|                         | LBP     | 271.6 m              |        |
| Principal<br>Dimensions | В       | 43.4 m               |        |
|                         | D       | 26.5 m               |        |
|                         | Td / Ts | 11.3 / 12.0 m        |        |
| Cargo Capacity          |         | 145,216 CBM          | at Td  |
| Speed                   |         | 20.2 knots           | at Td  |
| Main Engine             | Туре    | Mitsubishi MS 40-2   |        |
|                         | MCR     | 38,709 PS x 83.0 rpm |        |
|                         | NCR     | 34,838 PS x 80.0 rpm |        |
| Propeller Diameter      |         | 8.28 m               |        |





| rincipal Darticula      |         |                       |        |
|-------------------------|---------|-----------------------|--------|
| Principal Particula     |         |                       |        |
| Item                    |         | Value                 | Remark |
| Principal<br>Dimensions | LOA     | 292.85 m              |        |
|                         | LBP     | 282.7 m               |        |
|                         | В       | 46.7 m                |        |
|                         | D       | 25.8 m                |        |
|                         | Td / Ts | 17.9 / 17.9 m         |        |
| Cargo Capacity          |         | 182,000 MT            | at Td  |
| Speed                   |         | 14.5 knots            | at Td  |
| Main Engine             | Туре    | B&W 7S60MC-C          |        |
|                         | MCR     | 17,940 BHP x 93.0 rpm |        |
|                         | NCR     | 15,249 BHP x 84.5 rpm |        |
| Propeller Diameter      |         | 7.91 m                |        |





| Principal Particula     | ars     |                      |        |
|-------------------------|---------|----------------------|--------|
| Item                    |         | Value                | Remark |
|                         | LOA     | 356.18 m             |        |
|                         | LBP     | 341.18 m             |        |
| Principal<br>Dimensions | В       | 45.3 m               |        |
|                         | D       | 27.0 m               |        |
|                         | Td / Ts | 14.0 / 14.0 m        |        |
| Cargo Capacity          |         | 9,012 TEU            | at Td  |
| Speed                   |         | 25.0 knots           | at Td  |
| Main Engine             | Туре    | HSD B&W 12K98MC-C    |        |
|                         | MCR     | 91,491 PS x 94.0 rpm |        |
|                         | NCR     | 77,767 PS x 89.0 rpm |        |
| Propeller Diameter      |         | 9.70 m               |        |

