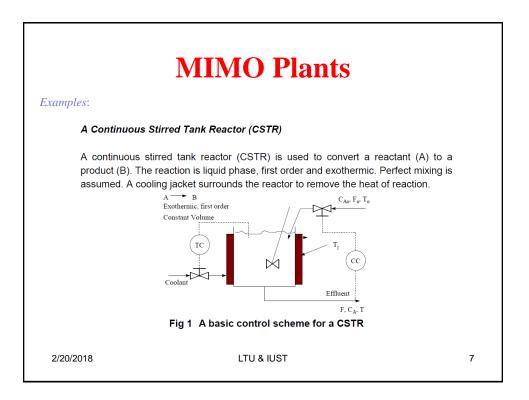
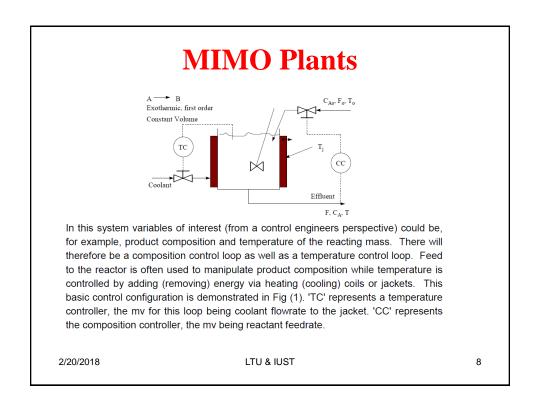
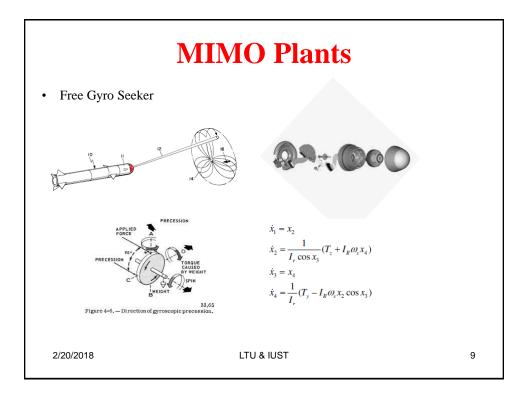
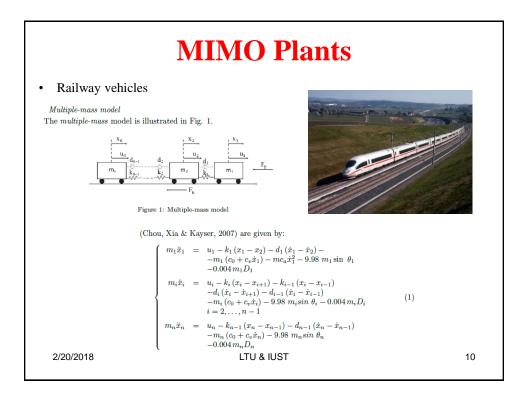


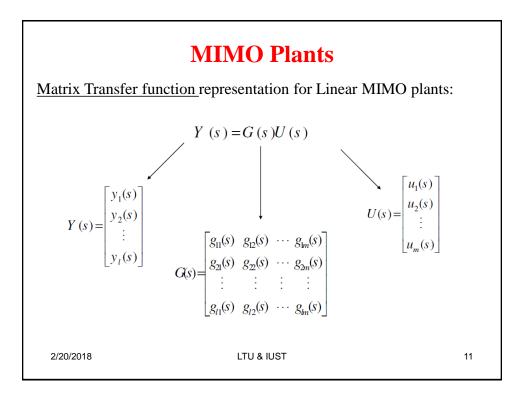
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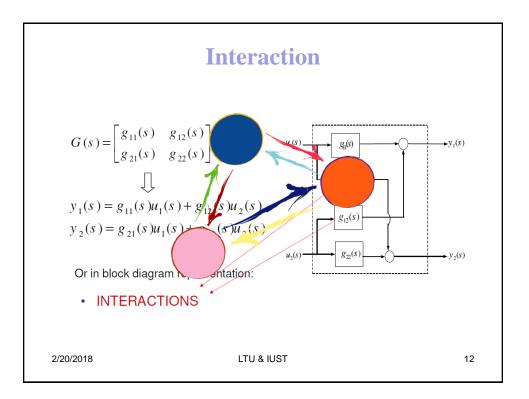


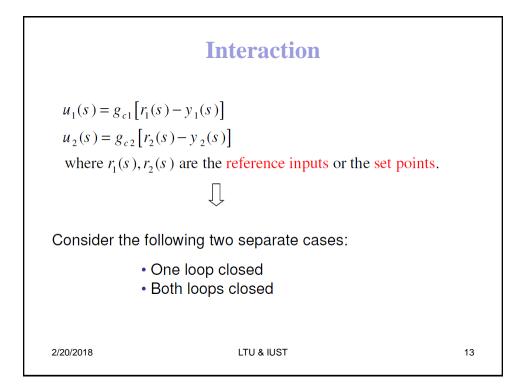


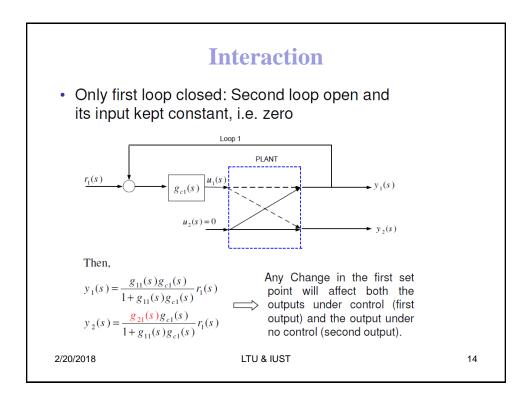


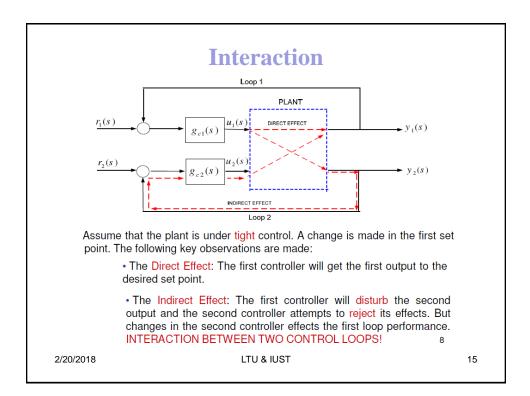


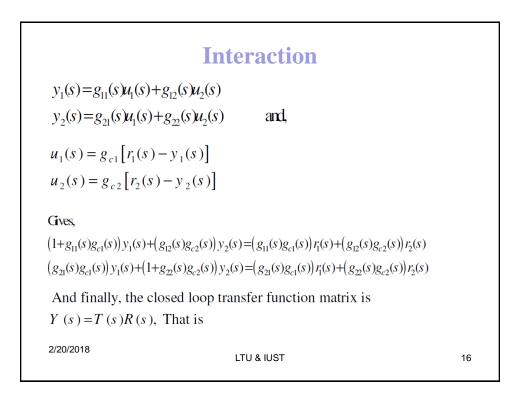


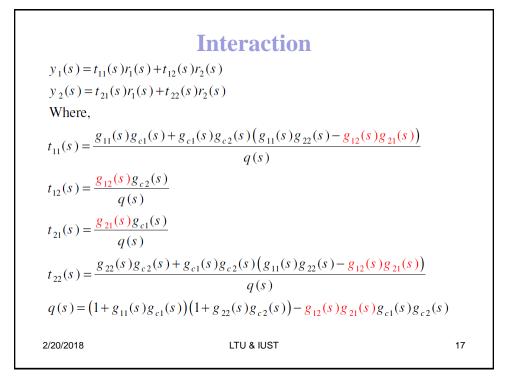


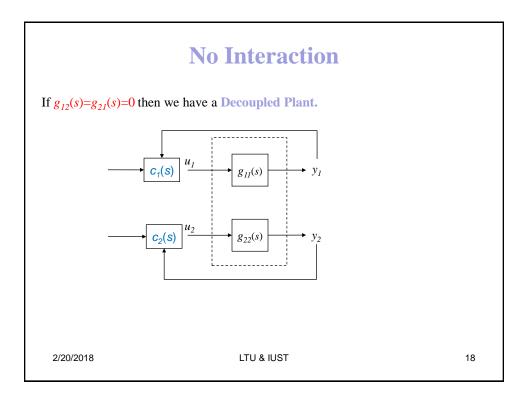


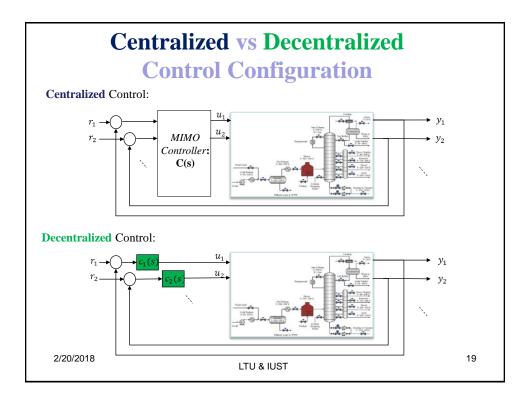




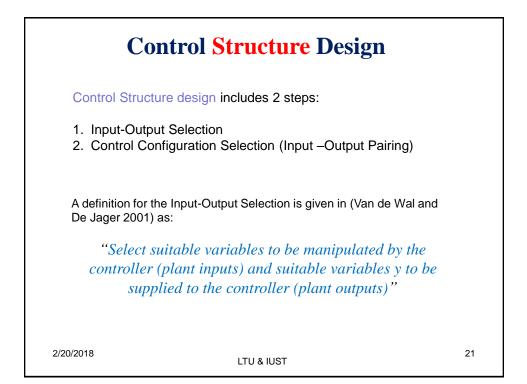


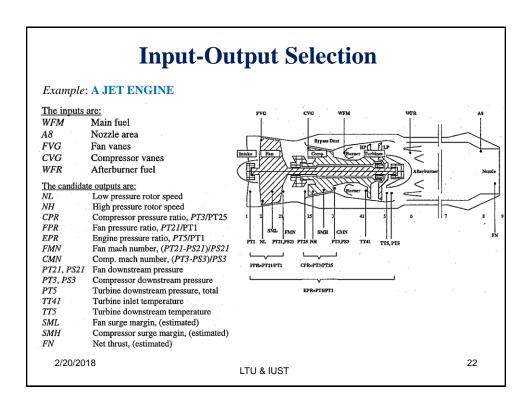


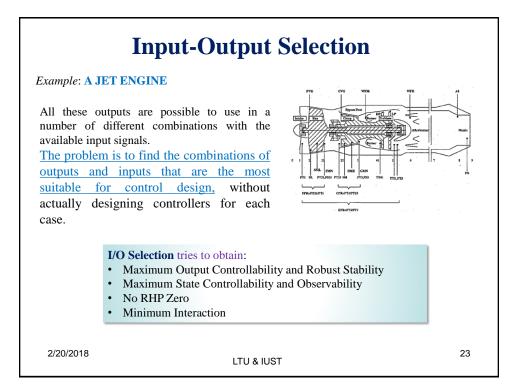


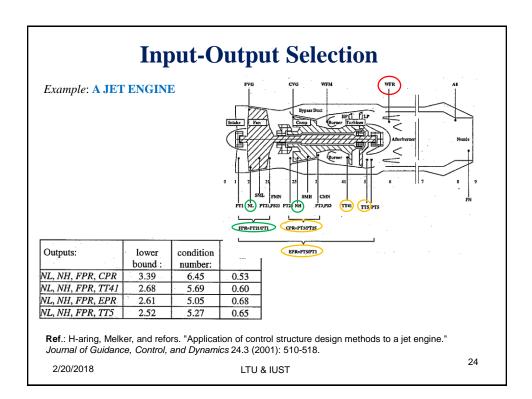


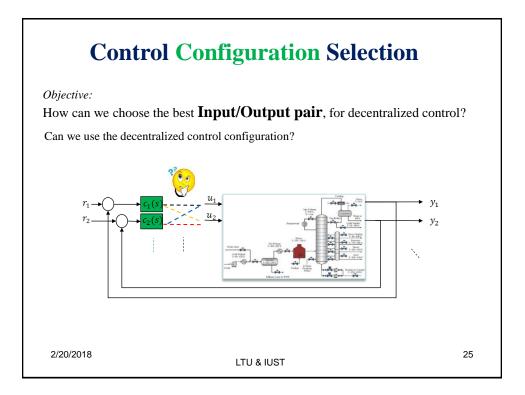


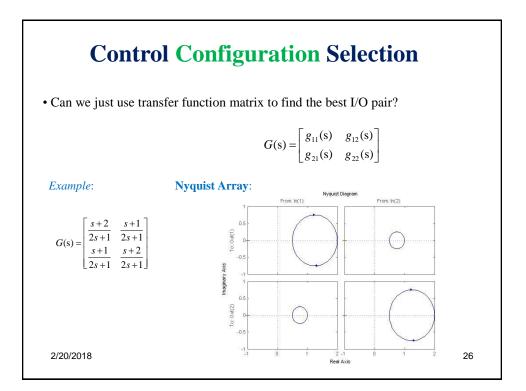


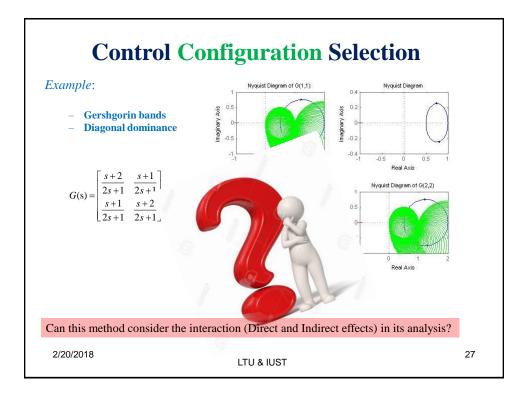


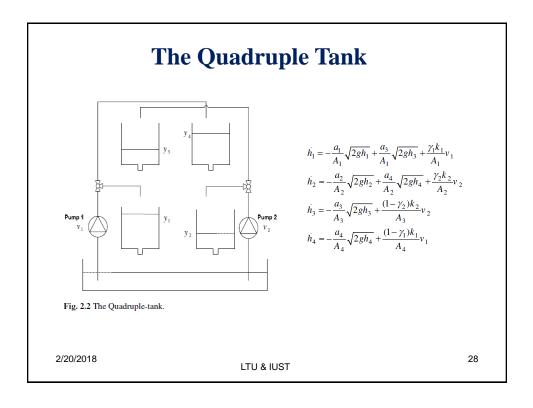


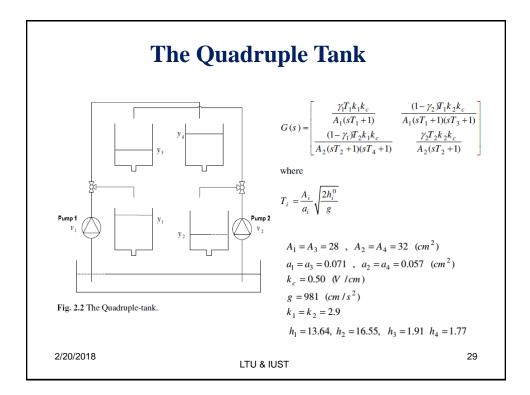


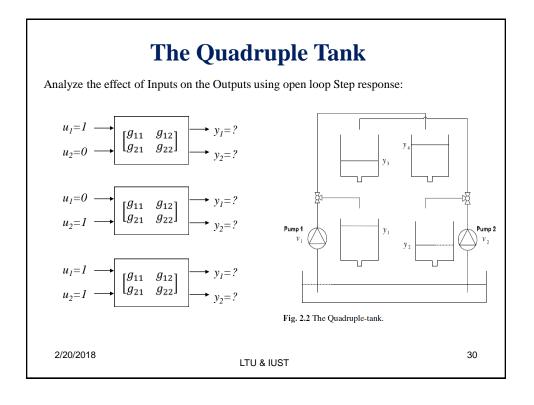


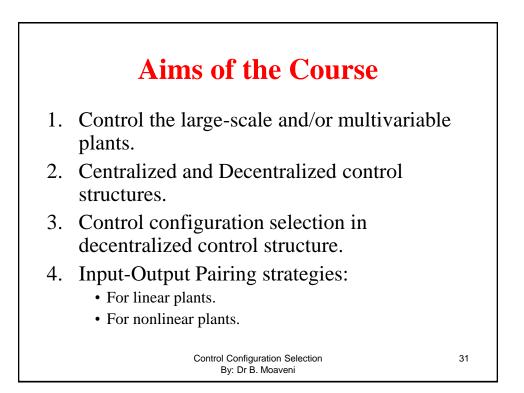












Learning Outcomes

- 1. Control the multivariable and large-scale plants based on the decentralized control.
- 2. Advantages of decentralized control structure.
- 3. Pairing strategies and corresponding pairing rules.
- 4. Similarities and differences between the pairing methods.
- 5. Pairing methods based on the soft-computing algorithms.
- 6. Pairing result in the presence of uncertainties.
- 7. Last researches in the field.

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- 1. Course Projects 40%
- 2. Final Exam 40%
- 3. Paper +20%

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Reference Books A. Khaki Sedigh, B. Moaveni, Control Configuration Selection for • Multivariable Plants, Springer, 2009. Bijan Moaveni, Vinay Kariwala, Input-Output Pairing Selection for Design ٠ of Decentralized Controller, 5th chapter in Plant Wide Control: Recent Advances and Development, John Wiley and Sons, 2012. Sigurd Skogestad, Ian Postlethwaite, Multivariable feedback control: ٠ analysis and design, John Wiley and Sons, 2005. Qing-Guo Wang, Decoupling Control, Springer, 2002. ٠ Jan Marian Maciejowski, Multivariable feedback design, Addison-Wesley, 1989. **Control Configuration Selection** 34 By: Dr B. Moaveni

