

The aim of this project is to discuss the method of establishing strict system equivalence according to Rosenbrock and its distinction according to Fuhrmann. Another objective is to have an introduction to module theory with respect to Linear System Theory.

- Read the part on strict system equivalence and system equivalence by Rosenbrock [2].
- Read the paper of Fuhrmann [1].
- Read also the works of Kalman that Fuhrmann's cite in his paper.
- Construct a few examples to illustrate the theory and discuss.

## References

- [1] P.A. Fuhrmann. Algebraic system theory: An analyst's point of view. ..., ..., ...
- [2] H. H. Rosenbrock. *State-space and Multivariable Control*. Thomas Nelson and Sons Ltd., London, 1970.