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- II. Real-Time parameter Estimation
  - 1. Least Squares and regression model
  - 2. Estimating Parameters in Dynamical Systems
  - 3. Experimental conditions
  - 4. Simulations of Recursive Estimators
  - 5. Prior Information
- III. Self-Tuning Regulators
  - 1. Structure of Self-Tuning Regulator
  - 2. Pole-Placement Design
  - 3. Indirect Self-Tuning Regulators
  - 4. Continuous-time self-tuner
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  - 6. Disturbances with known characteristics
- IV. Model-Reference Adaptive System
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  - 3. MRAS based on Lyapunov Stability and Hyper stability theory
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  - 5. Discrete-time MRAS