

Métodos Matemáticos en Control Automático. II Semestre 2012

Información

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Página del ramo <http://www.aula.utfsm.cl>

Material disponible en <http://lyapunov1.elo.utfsm.cl/ipd410> (accesible sólo intra-muros UTFSM)

Objetivos

Estudio riguroso de las disciplinas matemáticas más relevantes y empleadas en las modernas teorías de control automático.

Evaluación

Tareas, un tema de lectura/investigación a presentar, y un certamen final. La nota de la presentación y del certamen final equivalen (cada una) a una tarea más. Sin embargo, para aprobar el ramo, la nota mínima en el certamen es 40.

Contenidos

1. Variable Compleja [2, 13]
2. Álgebra lineal [14, 5]
3. Topología, espacios métricos, normados y de Banach [7, 6]
4. Espacios con producto interno y de Hilbert [7, 6].
5. Cálculo variacional [16, 15].

Referencias

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