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90% or more of engineering and maintenance costs, yet nearly all reliability and performance issues continue to be attributed to poor model quality, with little reason to expect this to change (Control Engineering, September 2018, “The big story behind auto-tuning”).

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called controlled variables (Cs) must be kept at their target values, their setpoints.

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| Page 1

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design of multivariable linear time-invariant (LTI) control systems. The course provides students necessary background needed to understand and to apply the modern H-infinity control theory and mu-synthesis based robust control design techniques.

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Multivariable Control
Systems. The system
above shows a plant
(P) which is a finite
order linear time-
invariant (LTI)
feedback system with
two inputs, w
(disturbance) and u
(actuator), two

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outputs, z (cost) and y (measurement), and a feedback controller (K). (Image courtesy of OCW.)

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graduate students and practicing engineers a thorough exposure to the state-of-the-art in multivariable control system design methodologies. Emphasis will be placed on design/analysis tools and their use in solving real-world control problems.

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Multivariable

EEE588: Multivariable Control System Design

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