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Control engineering is a multidisciplinary subject, useful in a variety of fields.

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This process exhibits interacting multivariable dynamics, because each of the pumps affects both outputs. 1 β is the ratio of water diverted from tank-1 to tank-4 and 2 β is the corresponding ratio...

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Multivariable Control Systems: An Engineering Approach Author: Prof. P. Albertos, Dr. A. Sala Published by Springer London ISBN: 978-1-85233-738-4 DOI: 10.1007/b97506 Table of Contents: Introduction to Multivariable Control Linear System Representation: Models and Equivalence Linear Systems Analysis Solutions to the Control Problem

[Multivariable control systems : an engineering approach ...](#)

Multivariable controllers are most common in the petrochemical, aeronautical, and energy industries. In a distillation column, for example, there can be hundreds of temperatures, pressures, and flow rates that all must be coordinated to maximize the quality of the distilled product.

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In conventional model-based multivariable control, model-related activities account for 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, \square The big story behind auto-tuning \square).

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Multivariable control is a technique that allows us to deal with more than one control objective at the same time. For a particular piece of equipment or a process unit, two or more variables, so-called controlled variables (Cs) must be kept at their target values, their setpoints.

[Multivariable Control - Chemical Engineering | Page 1](#)

This course is designed to provide a graduate level introductory treatment of the theory and 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 outputs, z (cost) and y (measurement), and a feedback controller (K). (Image courtesy of OCW.)

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Multivariable Control Systems: An Engineering Approach (Advanced Textbooks in Control and Signal Processing) Pedro Albertos , Antonio Sala This book focuses on control design with continual references to the practical aspects of implementation.

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The multivariable predictive controller (MPC) is a multivariable controller (MVC) that controls several process variables simultaneously by adjusting several manipulated variables at once.4 MPC has become a widely-adopted control technology, and benefits are commonly understood and documented in the processing industries, in refineries, gas plants, chemical plants and recently in oil production facilities.

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Multivariable control techniques solve issues of complex specification and modelling errors elegantly but the complexity of the underlying mathematics is much higher than presented in traditional single-input, single-output control courses. Multivariable Control Systems focuses on control design with continual references to the practical aspects of implementation. While the concepts of multivariable control are justified, the book emphasises the need to maintain student interest and ...

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Multivariable control - optimization 12. Multivariable optimal program 13. MPC - receding horizon control 14. Handling nonlinearity 15. System health management ... EE392m - Winter 2003 Control Engineering 1-32 Modern control systems \square Why this is relevant and important at present? \square Computing is becoming ubiquitous \square Sensors are becoming ...

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Department of Electrical Engineering and Computer Science 6.245: MULTIVARIABLE CONTROL SYSTEMS by A. Megretski The Waterbed Effect A common effect, usually associated with unstable zeroes and poles of the open loop plant, makes it theoretically impossible to make certain closed loop transfer functions

[Effect - MIT OpenCourseWare](#)

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

[EEE588: Multivariable Control System Design](#)

Multivariable control: Structural properties of systems. Diagonalisation, de-coupling and canonical forms. Controllability & observability. Stability of systems. Design of control systems. Relative gain array. Singular value decomposition. Morari's resilience index. Eigen structure assignment of control system design. Separation principle.