

Multivariable Control: An introduction

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Aims and Objectives

To introduce the basic concepts of multivariable control (a continuous stirred tank reactor will be used as the motivating example). To highlight the phenomenon of loop interactions. To learn how to model multivariable systems using input-output descriptions. To introduce the relative gain array (RGA) - a tool for the selection of input-output pairings.

At the end of this section of the course you should be able to select appropriate manipulated variable - controlled variable pairings to minimise the effect of loop interactions in multivariable systems. You should know how to formulate and interpret the RGA.

Plan

- Define the terms SISO and MIMO.
- Introduce MIMO control and loop interaction using a CSTR as the motivating example.
- discuss systems modelling for MIMO systems (the transfer function approach).
- clarify discussions using a worked example (modelling and control of a mixing process).
- introduce the RGA and discuss how it may be used to select input-output pairings.

Multivariable Control An Introduction

Thomas Griffiths



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