

Multivariable Control: An introduction

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Written: 4th November, 1998
Modified: 8th November, 1999

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

RM Cervero



Multivariable Control An Introduction:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Multivariable Control An Introduction**

In a global inundated with displays and the cacophony of fast conversation, the profound power and psychological resonance of verbal artistry frequently disappear into obscurity, eclipsed by the constant assault of noise and distractions. However, set within the musical pages of **Multivariable Control An Introduction**, a fascinating function of literary beauty that pulses with raw emotions, lies an remarkable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, that interesting opus books readers on a psychological odyssey, gently exposing the latent potential and profound impact embedded within the complex web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is key subjects, dissect its captivating publishing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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