



Design of a Controller for MIMO System by using Approximate Model Matching (AMM) Method

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ABSTRACT

This paper presents the design of a controller for MIMO systems. Performance analysis and controller design for SISO systems are easier than that for MIMO systems. These difficulties are due to the coupling or interactions between the various inputs and output variables. An input u_i from the set $u_i, i = 1, m$, not only affects the output y_i from the set $y_i, i = 1, p$, but may affect all the other outputs $y_i, i = 2, p$. Similarly, each input u_i may also affect output $y_i, i = 1$.

In many cases, cross-coupling between the inputs and outputs is low and hence conventional SISO controllers may perform well. If a multivariable system exhibits strong cross-coupling between the various inputs and outputs, a multivariable controller has to be designed for achieving satisfactory performance. A popular approach to deal with control loop interactions is to design non-interacting or decoupling control schemes. The role of decoupler is to decompose a multivariable process into a series of independent single-loop sub-systems. If such a controller is designed, complete or ideal decoupling occurs and the multivariable process can be controlled using independent loop controllers.

Keywords: Controller, Coupling, Time Delay, Decoupling, AMM, Decoupler, Zero Frequency Decoupler

1. INTRODUCTION

A system with Multiple Inputs and Multiple Outputs is known as a MIMO system. Industrial systems

like chemical reactors, heat exchangers, distillation columns etc. are some examples of MIMO systems[1]. Performance analysis and controller design for SISO systems are easier than that for MIMO systems. These difficulties are due to the coupling or interactions between the various inputs and output variables. An input u_i from the set $u_i, i = 1$, must only affects the output y_i from the set $y_i, i = 1, p$, but may affect all the other outputs $y_i, i = 2, p$. Similarly, each input u_i may also affect each output $y_i, i = 1, p$.

In many cases, cross-coupling between the inputs and outputs is low and hence conventional SISO controllers may perform well. If a multivariable system exhibits strong cross-coupling between the various inputs and outputs, a multivariable controller has to be designed for achieving satisfactory performance.

II. CONTROLLER DESIGN BY USING APPROXIMATE MODEL MATCHING (AMM) METHOD

A popular approach to deal with control loop interactions is to design non-interacting or decoupling control schemes. The role of decoupler[2] is to convert a multivariable process into several independent single-loop sub-systems. If such a controller is designed and complete or ideal decoupling occurs, the multivariable process can be controlled by using independent single-loop (SISO) controllers [3].

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