

Petr Chalupa

Discrete Decentralized Control Systems

Self-tuning control of multi input multi
output processes using supervisory logic



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The book is a revised version of Ph. The idea of logical supervisor is definitely proposed to simplify the design of supervisory block while preserving the balance of identification process. thesis centered on decentralized control. These algorithms become suitable for decentralized control with the addition of the on-line identification component. The decentralized method of the control of multivariable systems is normally studied in this reserve. Usage of decentralized approach I verified by experiments performed on both simulation systems and real-time laboratory plants. In a few applications, the classical approach of controlling a big multivariable program by central controller has become unattractive and sometimes unusable for either economic or reliability reasons. The supervisory logic may be used to increase the balance of on- line program model identification.D. The reserve also presents the Self-tuning Controllers Simulink Library, that was developed to give a framework for design and verification of self-tuning controllers. The benefit of using classical, well-known and verified control algorithms designed for one- dimensional systems was used.



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