

New Book Information



Process Modelling, Identification, and Control 2

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The book deals with mathematical modelling of sampled data systems, design of simple PID controllers, identification of processes, optimal, predictive, and adaptive process control. The intended audience of this book includes graduate students but can also be of interest to practising engineers or applied scientists that are interested in modelling, identification, and process control.

ISBN 80-227-2132-8, 260 pages

CONTENS:

Discrete-Time Process Models

Input-Output Models, State-Space Models, Properties of Discrete-Time Systems, Discrete-Time Feedback System

Process Identification

Identification from Step Responses, Recursive Least Squares Method, IDTOOL-MATLAB Toolbox

Simple Controllers

PID Controller, Practical Aspects

Optimal Process Control

Principle of Minimum, Dynamic Programming, State Feedback with Observer and Polynomial Pole Placement, Parametrisation of Stabilising Controllers, Observer LQ Control – State-Space and Polynomial Interpretation, LQG Control – State-Space and Polynomial Interpretation, H_2 Optimal Control

Predictive Control

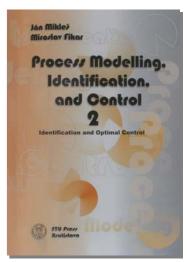
Derivation and Implementation of Predictive Control, Stability Results, Tuning

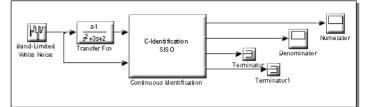
Adaptive Control

Discrete, and Continuous-Time Self-Tuning Control, SISO, and MIMO Case

The examples in the book are freely accessible in the Internet at the address: www.kirp.chtf.stuba.sk/~fikar/research/other/index.htm

ORDER FORM is available in the Internet at the address: http://www.kirp.chtf.stuba.sk/book/





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Volume 2 (slovak)	250,- Sk		
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