



## TOWARDS E-AUTOMATION

By Liu, Yang

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Application to Water Process Control | This work connects IT with automation engineering. Real-time remote control, data acquisition and monitoring via the internet or WAP become essential in process automation. This book presents research and development of the water process control in the automation laboratory of Technobothnia. It covers documentation, system modeling, simulation and evaluation, controller design and implementation as well as remote monitoring and control leading to e- Automation. The control task is focusing on controlling the water level, using the modern high performance SIEMENS SIMATIC S7-300 PLC and the world's leading Wonderware FactorySuite InTouch interactive HMI for visualization to realize fully digital PID closed-loop feedback control. The proposed solution can be also applied to control other system variables as needed. Real-time remote monitoring and control via internet and GSM network are also introduced. These technologies enable operators to interact with an entire operation of their production processes worldwide. A big step towards conceptive e-Automation has been carried out in this work. The e-Automation is hopefully defined as managing process online. | Format: Paperback | Language/Sprache: english | 92 pp.



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