NPTEL Video Course - Electrical Engineering - NOC:Industrial Automation and Control

Subject Co-ordinator - Prof. S. Mukhopadhyay

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction
Lecture 2 - Introduction (Continued...)
Lecture 3 - Architecture of Industrial Automation Systems
Lecture 4 - Architecture of Industrial Automation Systems (Continued...)
Lecture 5 - Measurement Systems Characteristics
Lecture 6 - Measurement Systems Characteristics (Continued...)
Lecture 7 - Data Acquisition Systems
Lecture 8 - Data Acquisition Systems (Continued...)
Lecture 9 - Introduction to Automatic Control
Lecture 10 - Introduction to Automatic Control (Continued...)
Lecture 11 - P-I-D Control
Lecture 12 - P-I-D Control (Continued...)
Lecture 13 - PID Controller Tuning
Lecture 14 - PID Controller Tuning (Continued...)
Lecture 15 - Feedforward Control Ratio Control
Lecture 16 - Feedforward Control Ratio Control (Continued...)
Lecture 17 - Time Delay Systems and Inverse Response Systems
Lecture 18 - Time Delay Systems and Inverse Response Systems (Continued...)
Lecture 19 - Special Control Structures
Lecture 20 - Special Control Structures (Continued...)
Lecture 21 - Concluding Lesson on Process Control (Self-study)
Lecture 22 - Introduction to Sequence Control, PLC, RLL
Lecture 23 - Introduction to Sequence Control, PLC, RLL (Continued...)
Lecture 24 - Sequence Control, Scan Cycle, Simple RLL Programs
Lecture 25 - Sequence Control, Scan Cycle, Simple RLL Programs (Continued...)
Lecture 26 - Sequence Control, More RLL Elements, RLL Syntax
Lecture 27 - Sequence Control, More RLL Elements, RLL Syntax (Continued...)
Lecture 28 - A Structured Design Approach to Sequence Control
Lecture 29 - A Structured Design Approach to Sequence Control (Continued...)

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Lecture 30 - PLC Hardware Environment
Lecture 31 - PLC Hardware Environment (Continued...)
Lecture 32 - Flow Control Valves
Lecture 33 - Flow Control Valves (Continued...)
Lecture 34 - Hydraulic Control Systems - I
Lecture 35 - Hydraulic Control Systems - I (Continued...)
Lecture 36 - Hydraulic Control Systems - II
Lecture 37 - Hydraulic Control Systems - II (Continued...)
Lecture 38 - Industrial Hydraulic Circuit
Lecture 39 - Industrial Hydraulic Circuit (Continued...)
Lecture 40 - Pneumatic Control Systems - I
Lecture 41 - Pneumatic Control Systems - I (Continued...)
Lecture 42 - Pneumatic Systems - II
Lecture 43 - Pneumatic Systems - II (Continued...)
Lecture 44 - Energy Savings with Variable Speed Drives
Lecture 45 - Energy Savings with Variable Speed Drives (Continued...)
Lecture 46 - Introduction To CNC Machines
Lecture 47 - Introduction To CNC Machines
Lecture 48 - The Fieldbus Network - I
Lecture 49 - The Fieldbus Network - I (Continued...)
Lecture 50 - Higher Level Automation Systems
Lecture 51 - Higher Level Automation Systems (Continued...)
Lecture 52 - Course Review and Conclusion (Self Study)
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