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Free industrial automation and PLC programming ebooks & pdf

Industrial Automation simply means making use of the control systems in places such as computers, robots, and information technology tools, and control strategies such as cascade controls, PLC's sensors etc. for managing various machineries in an industry.



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Automation of factory or manufacturing or process plant improves production rate through a better control of production. It helps to produce mass production by drastically reducing assembly time per product with a greater production quality. Therefore, for a given labor input it produces a large amount of output.

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• **Wireless Technology in Industrial Automation:**

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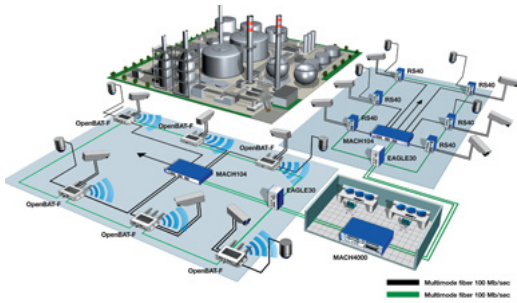
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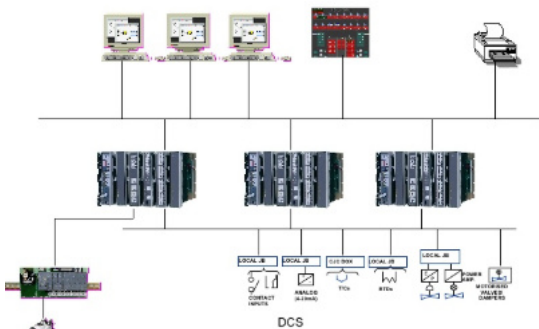
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- **Industrial Networks for communication and control:**
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DCS(distributed control system) ebooks

Process plant automation has evolved from pneumatics to electronics to distributed control systems. Use of DCS leads to various advantages like the overall optimization, ease of operation and maintenance tasks, easy monitoring of more plant parameters and ensure tighter control on them.



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- **Basic Concepts on DCS:** https://nptel.ac.in/courses/106106107/Module-1--Basic_Concepts.pdf
- **Introduction to Distributed Control System:**
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- **Distributed control system for process control using intelligent agents:**
https://www.researchgate.net/publication/270214069_Distributed_control_sys

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system-GE measurements:

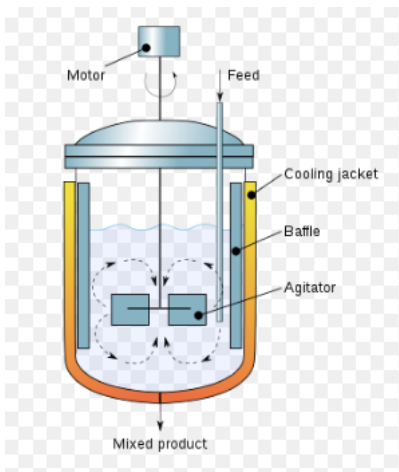
https://www.gemeasurement.com/sites/gemc.dev/files/oc_6000e_brochure_english_0.pdf

• Distributed control system :

<https://classes.engineering.wustl.edu/2009/spring/che433/2009-LAB/DCS%20overview.pdf>

Process control ebooks

We often come across the term process indicating a set up or a plant that we want to control. Thus by a process we may mean a unit of chemical plant (say, a distillation column), or a manufacturing system (say, an assembly shop), or a food processing industry and so on. We may want to automate the process; we may also like to control certain parameters of the system output (say, level of a tank, pressure of steam etc.)



You can download the link below:

• Introduction to Process Control: [https://nptel.ac.in/courses/108105063/pdf/L-11\(SS\)%20\(IA&C\)%20\(\(EE\)NPTEL\).pdf](https://nptel.ac.in/courses/108105063/pdf/L-11(SS)%20(IA&C)%20((EE)NPTEL).pdf)

• All about the control valve problems:

<https://www.emerson.com/documents/automation/product-bulletin-dead-band-plus-hysteresis-estimation-valvelink-diagnostics-en-126682.pdf>

• Fundamentals of Process Control:

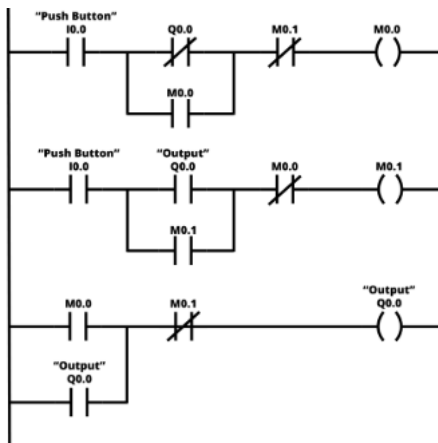
<https://www.pacontrol.com/download/Process%20Control%20Fundamentals.pdf>

• Process Control instrumentation:

<http://www.isa.cie.uva.es/~prada/Instrumentation.pdf>

PLC programming ebooks & pdfs

Programmable Logic Controller (PLC) is a microprocessor based system that uses programmable memory to store instructions and implement functions such as logic, sequencing, timing, counting and arithmetic in order to control machines and processes.



You can download the link below:

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• **Introduction to PLC programming And implementation:** https://www.idc-online.com/technical_references/pdfs/instrumentation/Intro_to_PLC_20Pro.pdf

• **PLC Ladder logic Examples and PLC Programming examples:**

<https://www.plcademy.com/ladder-logic-examples/>

• **PLC Ladder & functional Block Programming:**

<https://booksite.elsevier.com/9781856176217/appendices/01~Ch11.pdf>

• **Control Systems PLC Programming:**

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