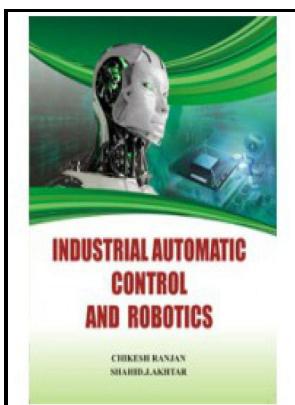


Principles of automatic control.

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Notes: Bibliography: 314-315.
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Automatic Control

Use and Use a to display the output x_1 . This motivates the use of nonlinear connections to increase control system quality.

Automatic Control

A new stage in the development of automatic control came with the use of electronic elements, particularly computing devices, in controllers. However, the control processes which have specific characteristics in biology and economics required the cooperative effort of specialists in various fields of science and technology, especially when the modern level of scientific development was reached, when the need for a mutual exchange of knowledge became evident.

MAE 435

Until the middle of the 20th century there was no connection between the studies of control processes in these dissimilar fields. A distinctive feature of ACT is a close and intensifying interaction not only with mathematics but also with physics and the technical sciences that deal with the properties of objects; it is becoming possible to create detailed dynamic models of the objects needed to solve the complicated problems of automatic control. The dates of the invention of the first control devices are unknown, as are the names of the inventors.

MIT

The computers reproduce the equations describing the entire control system in general. Synthesis and design applications to typical mechanical engineering control systems.

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