



# Pneumatic Actuating Systems for Automatic Equipment: Structure and Design

*Igor Lazar Krivts, German Vladimir Krejnin*

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Automation is quickly becoming the standard across nearly every area of manufacturing. Pneumatic actuators play a very important role in modern automation systems, yet until now there has been no book that takes into account the recent progress not only in the pneumatic systems themselves but also in the integration of mechatronics, electronic control systems, and modern control algorithms with pneumatic actuating systems. Filling this void, *Pneumatic Actuating Systems for Automatic Equipment: Structure and Design* describes novel constructions along with many of the most commonly applied pneumatic actuating systems.

Covering everything from underlying principles to mechanics, numerical modeling, parameter calculation, and control algorithms, this book uses real-world-tested designs to fully illustrate the systems and components presented. After an in-depth discussion of the various types of pneumatic actuators and electropneumatic control valves, the authors explain how to determine the system state variables and then examine open-loop and closed-loop pneumatic actuating systems in detail. They emphasize both the construction and dynamics of actuators to demonstrate and verify their properties before implementation.

*Pneumatic Actuating Systems for Automatic Equipment: Structure and Design* offers a modern treatment of the subject along with applied knowledge using practical examples and exercises to highlight the concepts. It is an ideal resource to bring you up to date on this critical component of automation.

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