



Pneumatic Drives: System Design, Modelling and Control

By Peter Beater



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This book covers the whole range of today's technology for pneumatic drives. It details drives for factory automation and automotive applications as well as describes the technology for the process industry like positioners or spring-and-diaphragm. In addition, the book examines several control strategies like binary mode cylinder drives or position controlled drives and computer aided analysis of complex systems.



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Editorial Review

From the Back Cover

This book is a comprehensive work on all aspects of pneumatic drives. It bridges the gap between classical descriptions of pneumatic systems in terms of their steady-state behaviour and the wish of design engineers to test their design before setting up the actual hardware. The book covers the whole range of today's technology for pneumatic drives.

Starting with a wide selection of linear actuators – among them standard and rodless cylinders, bellows and diaphragm cylinders –, semi-rotatory drives and air motors are described in detail. Standard directional control valves, analogue valves as well as pressure control valves are covered, including their design, application and modelling. Several control schemes and the necessary converters like solenoids or piezoelectric actuators are presented.

In addition to drives for factory automation and automotive applications the technology for the process industry like positioners or spring-and-diaphragm actuators is described.

The wish to analyse the design beforehand requires a mathematical description for computer simulation. Therefore, the book presents the basic laws of nature as well as the design and the modes of operation of pneumatic components to derive the modelling equations. It further covers several control strategies like binary mode cylinder drives or position controlled drives and computer aided analysis of complex systems.

The book is a unique resource and valuable reference for both, scientists and graduate students as well as professional engineers who need to design and control pneumatic drives.

Users Review

From reader reviews:

Robert Black:

The guide with title Pneumatic Drives: System Design, Modelling and Control has lot of information that you can find out it. You can get a lot of help after read this book. This book exist new knowledge the information that exist in this book represented the condition of the world currently. That is important to yo7u to understand how the improvement of the world. This kind of book will bring you within new era of the syndication. You can read the e-book on your smart phone, so you can read the idea anywhere you want.

Ramona Wrenn:

Pneumatic Drives: System Design, Modelling and Control can be one of your basic books that are good idea. Most of us recommend that straight away because this publication has good vocabulary that may increase your knowledge in language, easy to understand, bit entertaining but still delivering the information. The article writer giving his/her effort that will put every word into delight arrangement in writing Pneumatic Drives: System Design, Modelling and Control although doesn't forget the main place, giving the reader the

hottest and also based confirm resource facts that maybe you can be one among it. This great information can drawn you into brand-new stage of crucial contemplating.

Joseph Vest:

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