



Emerging Actuator Technologies: A Micromechatronic Approach

By José L. Pons

Download now

Read Online 

Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons

Actuators are devices that convert electrical energy into mechanical work, traditionally used in electrical, pneumatic and hydraulic systems. As the demand for actuator technologies grows in biomedical, prosthetic and orthotic applications, there is an increasing need for complex and sophisticated products that perform efficiently also when scaled to micro and nano domains.

Providing a comprehensive overview of actuators for novel applications, this excellent book:

- * Presents a mechatronic approach to the design, control and integration of a range of technologies covering piezoelectric actuators, shape memory actuators, electro-active polymers, magnetostrictive actuators and electro- and magnetorheological actuators.
- * Examines the characteristics and performance of emerging actuators upon scaling to micro and nano domains.
- * Assesses the relative merits of each actuator technology and outlines prospective application fields.

Offering a detailed analysis on current advances in the field, this publication will appeal to practising electrical and electronics engineers developing novel actuator systems. Mechanical and automation engineers, computer scientists and researchers will also find this a useful resource.

 [Download Emerging Actuator Technologies: A Micromechatronic ...pdf](#)

 [Read Online Emerging Actuator Technologies: A Micromechatronic ...pdf](#)

Emerging Actuator Technologies: A Micromechatronic Approach

By José L. Pons

Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons

Actuators are devices that convert electrical energy into mechanical work, traditionally used in electrical, pneumatic and hydraulic systems. As the demand for actuator technologies grows in biomedical, prosthetic and orthotic applications, there is an increasing need for complex and sophisticated products that perform efficiently also when scaled to micro and nano domains.

Providing a comprehensive overview of actuators for novel applications, this excellent book:

- * Presents a mechatronic approach to the design, control and integration of a range of technologies covering piezoelectric actuators, shape memory actuators, electro-active polymers, magnetostrictive actuators and electro- and magnetorheological actuators.
- * Examines the characteristics and performance of emerging actuators upon scaling to micro and nano domains.
- * Assesses the relative merits of each actuator technology and outlines prospective application fields.

Offering a detailed analysis on current advances in the field, this publication will appeal to practising electrical and electronics engineers developing novel actuator systems. Mechanical and automation engineers, computer scientists and researchers will also find this a useful resource.

Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons Bibliography

- Sales Rank: #4076846 in eBooks
- Published on: 2007-12-10
- Released on: 2007-12-10
- Format: Kindle eBook

 [Download Emerging Actuator Technologies: A Micromechatronic ...pdf](#)

 [Read Online Emerging Actuator Technologies: A Micromechatronic ...pdf](#)

Editorial Review

From the Back Cover

Actuators are devices that convert electrical energy into mechanical work, traditionally used in electrical, pneumatic and hydraulic systems. As the demand for actuator technologies grows in biomedical, prosthetic and orthotic applications, there is an increasing need for complex and sophisticated products that perform efficiently also when scaled to micro and nano domains.

Providing a comprehensive overview of actuators for novel applications, this book:

- Presents a mechatronic approach to the design, control and integration of a range of technologies covering piezoelectric actuators, shape memory actuators, electro-active polymers, magnetostrictive actuators and electro- and magnetorheological actuators.
- Examines the characteristics and performance of emerging actuators upon scaling to micro and nano domains.
- Assesses the relative merits of each actuator technology and outlines prospective application fields.

Offering a detailed analysis on current advances in the field, this book will appeal to practising electrical and electronics engineers developing novel actuator systems. Mechanical and automation engineers, computer scientists and researchers will also find this a useful resource.

Users Review

From reader reviews:

Lewis Tuggle:

Have you spare time to get a day? What do you do when you have much more or little spare time? That's why, you can choose the suitable activity intended for spend your time. Any person spent their spare time to take a stroll, shopping, or went to the Mall. How about open as well as read a book allowed Emerging Actuator Technologies: A Micromechatronic Approach? Maybe it is being best activity for you. You realize beside you can spend your time with your favorite's book, you can cleverer than before. Do you agree with the opinion or you have different opinion?

Eleanor Gomez:

Playing with family in a very park, coming to see the sea world or hanging out with friends is thing that usually you will have done when you have spare time, subsequently why you don't try factor that really opposite from that. One activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you are ride on and with addition info. Even you love Emerging Actuator Technologies: A Micromechatronic Approach, you are able to enjoy both. It is great combination right, you still want to miss it? What kind of hang-out type is it? Oh occur its mind hangout folks. What? Still don't buy it, oh come on its known as reading friends.

James Roberts:

Reading a book for being new life style in this 12 months; every people loves to study a book. When you examine a book you can get a lot of benefit. When you read textbooks, you can improve your knowledge, since book has a lot of information in it. The information that you will get depend on what types of book that you have read. If you would like get information about your analysis, you can read education books, but if you want to entertain yourself you are able to a fiction books, this sort of us novel, comics, as well as soon. The Emerging Actuator Technologies: A Micromechatronic Approach will give you a new experience in reading a book.

Emmett Willett:

Many people said that they feel uninterested when they reading a book. They are directly felt the idea when they get a half regions of the book. You can choose the particular book Emerging Actuator Technologies: A Micromechatronic Approach to make your current reading is interesting. Your personal skill of reading ability is developing when you just like reading. Try to choose very simple book to make you enjoy to read it and mingle the sensation about book and studying especially. It is to be first opinion for you to like to wide open a book and study it. Beside that the guide Emerging Actuator Technologies: A Micromechatronic Approach can to be your brand new friend when you're experience alone and confuse in doing what must you're doing of the time.

Download and Read Online Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons #VTMB1COJAEZ

Read Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons for online ebook

Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons books to read online.

Online Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons ebook PDF download

Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons Doc

Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons Mobipocket

Emerging Actuator Technologies: A Micromechatronic Approach By José L. Pons EPub