

Electroactive Polymers for Robotic Applications

Kwang J. Kim and Satoshi Tadokoro (Eds.)

Electroactive Polymers for Robotic Applications

Artificial Muscles and Sensors

 Springer

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Preface

The focus of this book is on electroactive polymer (EAP) actuators and sensors. The book covers the introductory chemistry, physics, and modeling of EAP technologies and is structured around the demonstration of EAPs in robotic applications. The EAP field is experiencing interest due to the ability to build improved polymeric materials and modern digital electronics. To develop robust robotic devices actuated by EAP, it is necessary for engineers to understand their fundamental physics and chemistry.

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