



Shape Memory Alloys, Muscle Wires and Robotics

Benjamin C. Lawson

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Muscle wires, nitinol, Flexinol or -formally called- shape-memory alloys (SMA) present a huge demand today because of their high power/weight ratio. That means that, when combined with cheap, light-weighted batteries available in the market, they are the best choice for mobile robotics. This book is a thorough study of the state of the art about how this technology is used in robotics. It provides a full overview of the concepts as well as practical examples of implementation that can be performed in a university laboratory. The author, Benjamin C. Lawson, has focused on writing a book that comprises all the basic knowledge available about the technology, with an accessible and easy-to-read book, valid for students, professors, professional and even amateurs of robotics.

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