Learning-Based Adaptive Control: An Extremum Seeking Approach Theory and Applications (Paperback)

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By Mouhacine Benosman

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. Adaptive control has been one of the main problems studied in control theory. The subject is well understood, yet it has a very active research frontier. This book focuses on a specific subclass of adaptive control, namely, learning-based adaptive control. As systems evolve during time or are exposed to unstructured environments, it is expected that some of their characteristics may change. This book offers a new perspective about how to deal with these variations. By merging together Model-Free and Model-Based learning algorithms, the author demonstrates, using a number of mechatronic examples, how the learning process can be shortened and optimal control performance can be reached and maintained. * Includes a good number of Mechatronics Examples of the techniques.* Compares and blends Model-free and Model-based learning algorithms. * Covers fundamental concepts, state-of-the-art research, necessary tools for modeling, and control.

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