



# Real-Time Optimization by Extremum-Seeking Control

*Kartik B. Ariyur, Miroslav Krstic*

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## **Real-Time Optimization by Extremum-Seeking Control** Kartik B. Ariyur, Miroslav Krstic

An up-close look at the theory behind and application of extremum seeking

Originally developed as a method of adaptive control for hard-to-model systems, extremum seeking solves some of the same problems as today's neural network techniques, but in a more rigorous and practical way.

Following the resurgence in popularity of extremum-seeking control in aerospace and automotive engineering, Real-Time Optimization by Extremum-Seeking Control presents the theoretical foundations and selected applications of this method of real-time optimization.

Written by authorities in the field and pioneers in adaptive nonlinear control systems, this book presents both significant theoretic value and important practical potential. Filled with in-depth insight and expert advice, Real-Time Optimization by Extremum-Seeking Control:

- \* Develops optimization theory from the points of dynamic feedback and adaptation
- \* Builds a solid bridge between the classical optimization theory and modern feedback and adaptation techniques
- \* Provides a collection of useful tools for problems in this complex area
- \* Presents numerous applications of this powerful methodology

\* Demonstrates the immense potential of this methodology for future theory development and applications

Real-Time Optimization by Extremum-Seeking Control is an important resource for both students and professionals in all areas of engineering-electrical, mechanical, aerospace, chemical, biomedical-and is also a valuable reference for practicing control engineers.



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