



Signal Processing for Intelligent Sensor Systems with MATLAB®, Second Edition (Signal Processing and Communications)

David C. Swanson

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Signal Processing for Intelligent Sensors with MATLAB®, Second Edition once again presents the key topics and salient information required for sensor design and application. Organized to make it accessible to engineers in school as well as those practicing in the field, this reference explores a broad array of subjects and is divided into sections: *Fundamentals of Digital Signal Processing*, *Frequency Domain Processing*, *Adaptive System Identification and Filtering*, *Wavenumber Sensor Systems*, and *Signal Processing Applications*.

Taking an informal, application-based approach and using a tone that is more engineer-to-engineer than professor-to-student, this revamped second edition enhances many of the features that made the original so popular. This includes retention of key algorithms and development methodologies and applications, which are creatively grouped in a way that differs from most comparable texts, to optimize their use.

New for the Second Edition:

- Inclusion of more solved problems
- Web access to a large collection of MATLAB® scripts used to support data graphs presented throughout the book
- Additional coverage of more audio engineering, transducers, and sensor networking technology
- A new chapter on Digital Audio processing reflects a growing interest in digital surround sound (5.1 audio) techniques for entertainment, home theaters, and virtual reality systems
- New sections on sensor networking, use of meta-data architectures using XML, and agent-based automated data mining and control

Serving dual roles as both a learning resource and a field reference on sensor system networks, this book progressively reveals digestible nuggets of critical information to help readers quickly master presented algorithms and adapt them to meet their requirements. It illustrates the current trend toward agile

development of web services for wide area sensor networking and intelligent processing in the sensor system networks that are employed in homeland security, business, and environmental and demographic information systems.

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Joseph Taylor:

The feeling that you get from Signal Processing for Intelligent Sensor Systems with MATLAB®, Second Edition (Signal Processing and Communications) may be the more deep you excavating the information that hide within the words the more you get enthusiastic about reading it. It does not mean that this book is hard to understand but Signal Processing for Intelligent Sensor Systems with MATLAB®, Second Edition (Signal Processing and Communications) giving you excitement feeling of reading. The article writer conveys their point in certain way that can be understood by simply anyone who read it because the author of this e-book is well-known enough. This specific book also makes your personal vocabulary increase well. Therefore it is easy to understand then can go with you, both in printed or e-book style are available. We advise you for having that Signal Processing for Intelligent Sensor Systems with MATLAB®, Second Edition (Signal Processing and Communications) instantly.

Alice Ybarra:

Spent a free time and energy to be fun activity to accomplish! A lot of people spent their free time with their family, or their friends. Usually they doing activity like watching television, going to beach, or picnic inside park. They actually doing same thing every week. Do you feel it? Would you like to something different to fill your current free time/ holiday? Can be reading a book may be option to fill your free time/ holiday. The first thing that you'll ask may be what kinds of guide that you should read. If you want to test look for book, may be the e-book untitled Signal Processing for Intelligent Sensor Systems with MATLAB®, Second Edition (Signal Processing and Communications) can be great book to read. May be it might be best activity to you.

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