Digital Signal Processing using MATLAB (Activate Learning with these NEW titles from Engineering!)

By Robert J. Schilling, Sandra L Harris

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Help your students focus on the development, implementation, and application of modern DSP techniques with DIGITAL SIGNAL PROCESSING USING MATLAB, 3E. Written using an engaging, informal style, this book inspires students to become actively involved in each topic discussed. Each chapter starts with a motivational section that includes practical examples students can solve using the techniques covered in the chapter. Every chapter concludes with a detailed case study example, a chapter summary with student learning outcomes, and a generous selection of homework problems cross-referenced to sections within the chapter. A comprehensive DSP Companion software accompanies this edition for you to use inside the classroom and your students to use outside of the classroom. The DSP Companion software operates with MATLAB and provides a plethora of options for class demonstrations and interactive student explorations of analysis and design concepts.

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Editorial Review

Review
"The author's approach seems to me to be good and logical. The balance between theory, applications and using computer tools (MATLAB, etc.) for verification is a very good balance. The concepts are well presented and described. The examples are more than adequate. The illustrations are in general very good. The range of topics discussed is very good. Using MATLAB is a plus."

"Organization of material is fine. The approach to the topics presented in the text is good and it is consistent with the educational and learning process. The authors are paying attention to the level of the student's understanding and the need to motivate and illustrate concepts with examples and problem descriptions and guidance to appropriate solutions. The authors use good graphics, good side notes, good demarcations to break pace and mark important concepts as side-bars that pull the student's attention."

"I like the inclusion of a chapter summary at the end of each chapter. I think these short summary sections play an important role in the learning process. Overall, this is a solid textbook! Of course, the use of MATHLAB examples has become the standard in DSP courses, and it is well-represented in this textbook."

About the Author
Robert J. Schilling is Professor Emeritus of Electrical and Computer Engineering at Clarkson University. Dr. Schilling's teaching interests include digital signal processing, control systems, robotics, nonlinear systems, computer graphics, and C++ and MATLAB programming. His research interests encompass adaptive signal processing, nonlinear system identification, active noise control, and control of robotic manipulators.

Bio: Sandra L. Harris is Associate Professor Emeritus of Chemical Engineering at Clarkson University. Dr. Harris's teaching interests include process control, thermodynamics, and biochemical engineering. Her research interests center around periodic processing, control of systems having varying dead times, and the generation of input signals for efficient process identification.

Users Review

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