



# Signals and Systems Laboratory with MATLAB

By Alex Palamides, Anastasia Veloni



**Signals and Systems Laboratory with MATLAB** By Alex Palamides, Anastasia Veloni

With its exhaustive coverage of relevant theory, **Signals and Systems Laboratory with MATLAB®** is a powerful resource that provides simple, detailed instructions on how to apply computer methods to signals and systems analysis. Written for laboratory work in a course on signals and systems, this book presents a corresponding MATLAB implementation for each theoretical concept introduced, making it a powerful learning tool for engineers, scientists, and students alike.

**MATLAB code is used in problems and examples presented throughout the book. This code and other learning materials are available in a downloadable supplement.**

Due to the extensive?and truly unique?integration of MATLAB throughout this book, the authors provide a complete tutorial on use of the language for signals and systems analysis. With more than 5,000 lines of MATLAB code and more than 700 figures embedded in the text, the material teaches readers how to program in MATLAB and study signals and systems concepts at the same time, giving them the tools to harness the power of computers to quickly assess problems and then visualize their solutions.

Among its many useful features, this book:

- Offers complete coverage of the signals and systems theory, starting with elementary signals and concluding with state-space modeling
- Contains more than 400 examples and chapter-end solved problems
- Executes commands one-by-one at the MATLAB command prompt, and results, along with comments, encouraging students to learn MATLAB on the fly

#### **Additional Pedagogical Features:**

- A detailed MATLAB tutorial to introduce a beginner programmer to the

language

- Laboratory exercises that give students hands-on experience and help professors organize a course laboratory component
- Presentation of continuous- and discrete-time in parallel fashion, effectively illustrating the similarities and differences between the two
- Step-by-step examples that present data in tabular format and usually offer several different solutions to each problem

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## **Editorial Review**

### **About the Author**

**Dr. Alex Palamides** is with the European Space Agency, European Space Research and Technology Centre, Noordwijk, the Netherlands. He is the author/coauthor of several research contributions published in journals and for conferences, and he has authored one other textbook. His research interests lie in the areas of signal processing, dynamic systems, telecommunications, and differential equations.

**Professor Anastasia Veloni** is with Technological Educational Institute of Piraeus, Department of Electronic Computer Systems, Athens, Greece. She has extensive educational experience in a variety of courses in the field of signals and systems. She is the author/coauthor of three other textbooks. Her research interests lie in the areas of signal processing, dynamic systems, and automatic control.

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