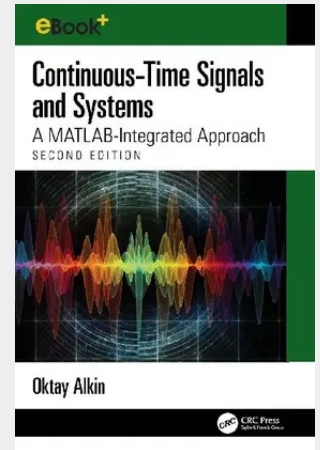


Continuous-Time Signals and Systems

A MATLAB-Integrated Approach, Second Edition

Drawing on author's 30+ years of teaching experience, "Continuous-Time Signals and Systems: A MATLAB Integrated Approach" represents a novel and comprehensive approach to understanding signals and systems theory. Many textbooks use MATLAB as a computational tool, but Alkin's text employs MATLAB both computationally and pedagogically to provide interactive, visual reinforcement of fundamental concepts important in the study of continuous-time signals and systems. In addition to 210 traditional end-of-chapter problems and 168 solved examples, the book includes hands-on MATLAB modules consisting of: - 77 MATLAB-based homework problems and projects (coordinated with the traditional end-of-chapter problems) - 106 live scripts and GUI-based interactive apps that animate key figures and bring core concepts to life - Downloadable MATLAB code for most of the solved examples - 64 fully detailed MATLAB exercises that involve step by step development of code to simulate the relevant signal and/or system being discussed, including some case studies on topics such as synthesizers, simulating instrument sounds, pulse-width modulation, etc. - The ebook+ version includes clickable links that allow running MATLAB code associated with solved examples and exercises in a browser, using the online version of MATLAB. It also includes audio files for some of the examples. Each module or application is linked to a specific segment of the text to ensure seamless integration between learning and doing. The aim is to not simply give the student just another toolbox of MATLAB functions, but to use the development of MATLAB code as part of the learning process, or as a litmus test of students' understanding of the key concepts. All relevant MATLAB code is freely available from the publisher. In addition, a solutions manual, figures, presentation slides and other ancillary materials are available for instructors with qualifying course adoption.

Drawing on author's 30+ years of teaching experience, "Continuous-Time Signals and Systems: A MATLAB Integrated Approach" represents a novel and comprehensive approach to understanding signals and systems theory.



221,90 €

221,90 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781032675237

Medium: Buch

ISBN: 978-1-032-67523-7

Verlag: CRC Press

Erscheinungstermin: 24.03.2025

Sprache(n): Englisch

Auflage: 2. Auflage 2025

Produktform: Gebunden

Gewicht: 1613 g

Seiten: 766

Format (B x H): 183 x 260 mm

