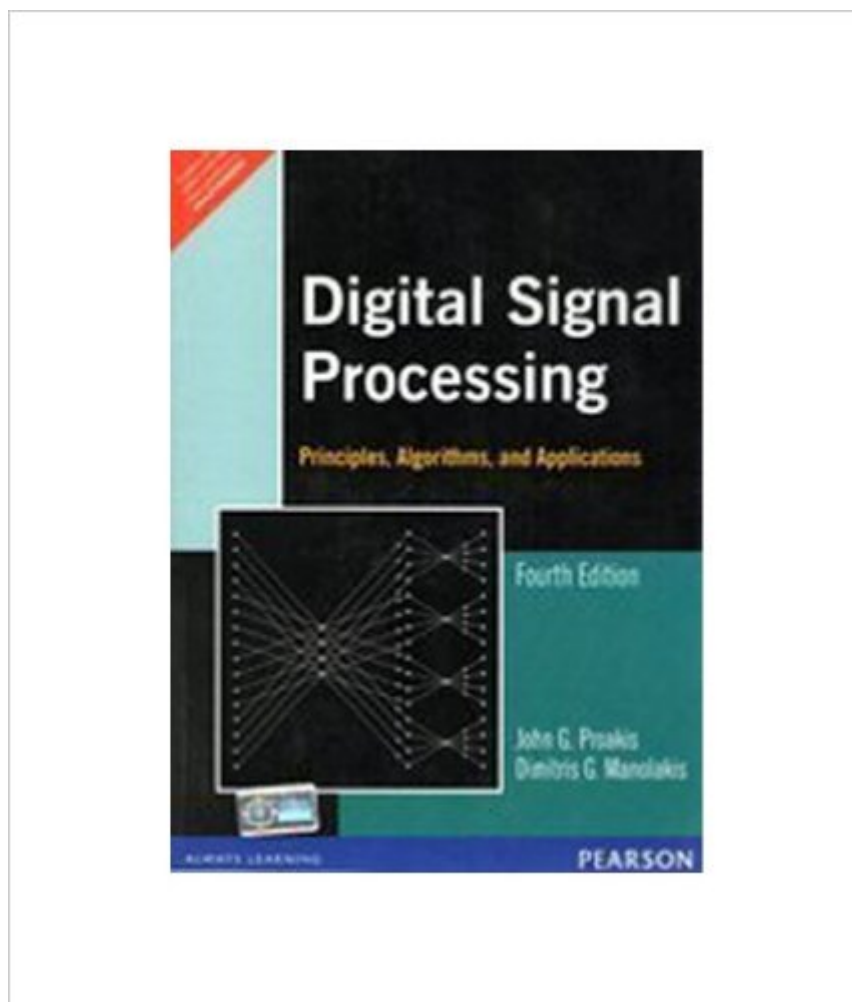


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Digital Signal Processing, 4/e



Synopsis

Digital signal processing: principles, algorithms and applications is a computer textbook written by dimitris g manolakis and john g. Proakis. It is an introductory and basic textbook that covers fundamental topics such as discrete time signals, modern digital processing, and systems. Chapters include discrete-time signals and systems, frequency analysis of signals and systems, sampling and reconstruction of signals, efficient computation of the dft: fast fourier transform algorithms, design of digital filters, linear prediction and optimum linear filters, and power spectrum estimation. It also has chapters on the z-transform and its application to the analysis of lti systems, frequency domain analysis of lti systems, the discrete fourier transform: its properties and applications, implementation of discrete-time systems, multirate digital signal processing, and adaptive filters. Digital signal processing: principles, algorithms and applications has over 500 homework problems for students to practice at home. The authors have updated the contents in this book, making it more relevant. There is a new addition on the discrete cosine transform and an improved chapter on multirate digital signal processing. Digital signal processing: principles, algorithms and applications was published by Pearson Education in 2007. This book is the fourth edition and is available in paperback. About the authors: Dimitris G. Manolakis has co-written many leading books on digital signal processing including Introduction to Digital Signal Processing, Statistical & Adaptive Signal Processing, and Applied Digital Signal Processing: Theory and Practice. John G. Proakis is currently the professor emeritus at Northeastern University. He specializes in digital signal processing and digital communications.

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Great advanced signals book. He glosses over some of the finer points. Highly recommended for a second signals or grad course.

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