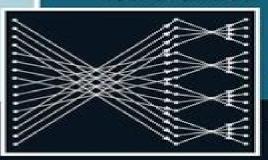
## Fourth Edition



# Digital Signal Processing

**Principles, Algorithms, and Applications** 

John G. Proakis Dimitris G. Manolakis

This fourth edition covers the fundamentals of discrete-time signals, systems, and modern digital signal processing. Appropriate for students of electrical engineering, computer engineering, and computer science, the book is suitable for undergraduate and graduate courses and provides balanced coverage of both theory and practical applications.

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New to the fourth edition:

- Newly written and updated chapters on sampling and reconstruction of signals
- New additions to the discrete cosine transform
- Updated chapter on multirate digital signal processing

The book also contains a large number of welldesigned problems. Additionally, PowerPoint slides and a solutions manual are available for instructors.

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