



# A Practical Approach to Digital Signal Processing

*K. Padmanabhan*

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## **A Practical Approach to Digital Signal Processing K. Padmanabhan**

This book presents an exhaustive exposition of the theory and practice of digital signal processing. Basic concepts and techniques have been explained in detail and suitably illustrated with practical examples and software programs. Practice problems and projects have also been given throughout the book. The book begins with an introduction to signals and the relative merits of analog and digital methods. Hardware details of present-day DSP integrated circuits are explained next and full tested circuits are provided for project work by students. Fourier Transforms are then explained in detail. Subsequently, recursive filter design methods are discussed with typical examples and programs. An exhaustive account of various filters is then given with design techniques. The discussion is illustrated through software programs and practical design examples. The book concludes with a detailed discussion of lattice type filters and their usage in speech processing. With its comprehensive coverage and practical approach, this is an essential text for electrical, electronics and communication engineering students. The book contains MATLAB examples for better visuals and learning. Practising engineers would also find this book to be a valuable reference source.

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