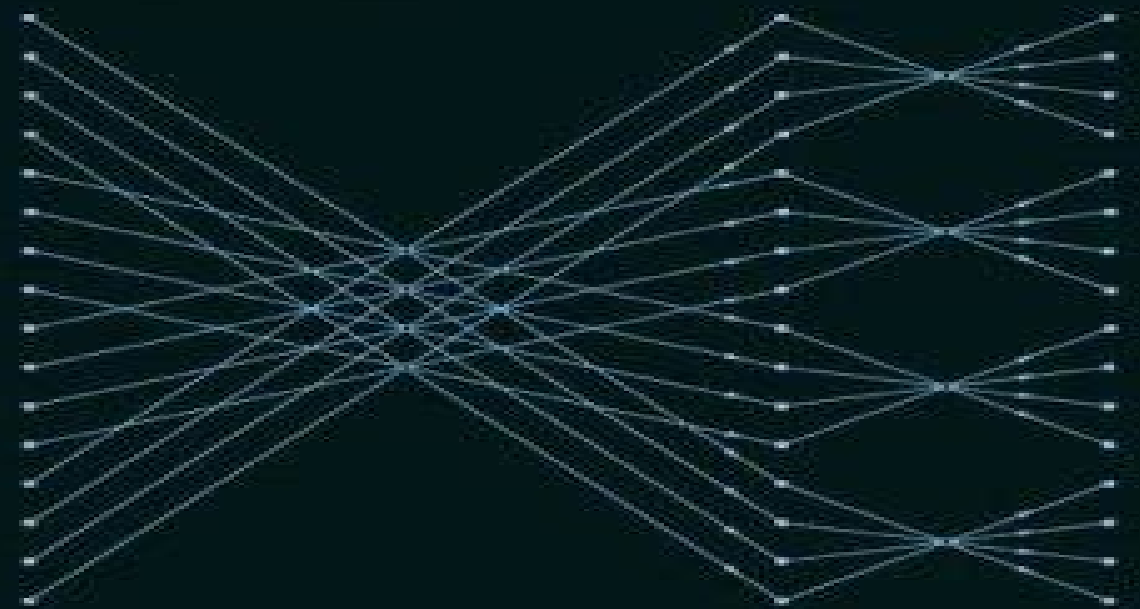


# DIGITAL SIGNAL PROCESSING

Principles, Algorithms,  
and Applications

Fourth Edition



John G. Proakis  
Dimitris G. Manolakis

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**Gerard Blanchet, Maurice Charbit**



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Delores M Etter Texas Instruments Distinguished Chair in Electrical Engineering and Executive Director Caruth Institute for Engineering Education Southern Methodist University Dallas Texas USA Mastering practical application of real time digital signal processing DSP remains one of the most challenging and time consuming pursuits in the field It is even more difficult without a resource to bridge the gap between theory and practice Filling that void *Real Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSPs Second Edition* is organized in three sections that cover enduring fundamentals and present practical projects and invaluable appendices This updated edition gives readers hands on experience in real time DSP using a practical step by step framework that also incorporates demonstrations exercises and problems coupled with brief overviews of applicable theory and MATLAB application Engineers educators and students rely on this book for precise simplified instruction on use of real time DSP applications The book's software supports the latest high performance hardware including the powerful inexpensive and versatile OMAP L138 Experimenter Kit and other development boards Incorporating readers valuable feedback and suggestions this installment covers additional topics such as PN sequences and more advanced real time DSP projects including higher order digital communications projects making it even more valuable as a learning tool

*Digital Signal Processing* John G. Proakis, Dimitris G. Manolakis, 1995

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