



Digital Signal Processing Using MATLAB: A Problem Solving Companion (Activate Learning with these NEW titles from Engineering!)

By Vinay K. Ingle, John G. Proakis

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Editorial Review

Review

"I like the way the authors discuss the solutions to the problems. They provide enough steps in their solution to help the student keep up, but not so many steps that the student doesn't have to think... This book is very accessible compared to many texts. It is written clearly... It has excellent integration with MATLAB. I like the fact that the authors have no trouble introducing functions to complement the MATLAB functions."

"This book has developed a suite of MATLAB functions that can be used to determine standard digital filter structures including the direct form, cascade form, parallel form, and lattice form. The MATLAB scripts are provided with detailed explanations. Numerous examples along with block diagrams and discussions are included to show how these functions are used. Overall, I find the authors' treatment of the subject, including the MATLAB functions and examples, is among the best compared with other textbooks I know of... In terms of the treatment of using MATLAB for DSP teaching at the undergraduate level, counting the number and variety of MATLAB examples and problems, this is the most competitive book on the market in my opinion."

About the Author

Dr. Vinay K. Ingle is an Associate Professor of Electrical and Computer Engineering at Northeastern University. He received his Ph.D. in electrical and computer engineering from Rensselaer Polytechnic Institute in 1981. He has broad research experience and has taught courses on topics including signal and image processing, stochastic processes, and estimation theory. Dr. Ingle has co-authored numerous higher level books including DSP LABORATORY USING THE ADSP-2181 MICROPROCESSOR (Prentice Hall, 1991), DISCRETE SYSTEMS LABORATORY (Brooks-Cole, 2000), STATISTICAL AND ADAPTIVE SIGNAL PROCESSING (Artech House, 2005), and APPLIED DIGITAL SIGNAL PROCESSING (Cambridge University Press, 2011).

Affiliation: University of California, San Diego and Northeastern University Bio: Dr. John Proakis is an Adjunct Professor at the University of California at San Diego and a Professor Emeritus at Northeastern University. He was a faculty member at Northeastern University from 1969 through 1998 and held several academic positions including Professor of Electrical Engineering, Associate Dean of the College of Engineering and Director of the Graduate School of Engineering, and Chairman of the Department of Electrical and Computer Engineering. His professional experience and interests focus in areas of digital communications and digital signal processing. He is co-author of several successful books, including DIGITAL COMMUNICATIONS, 5E (2008), INTRODUCTION TO DIGITAL SIGNAL PROCESSING, 4E (2007); DIGITAL SIGNAL PROCESSING LABORATORY (1991); ADVANCED DIGITAL SIGNAL PROCESSING (1992); DIGITAL PROCESSING OF SPEECH SIGNALS (2000); COMMUNICATION SYSTEMS ENGINEERING, 2E (2002); DIGITAL SIGNAL PROCESSING USING MATLAB V.4, 3E (2010); CONTEMPORARY COMMUNICATION SYSTEMS USING MATLAB, 2E (2004); ALGORITHMS FOR STATISTICAL SIGNAL PROCESSING (2002); FUNDAMENTALS OF COMMUNICATION SYSTEMS (2005).

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