Speech Coding: A Computer Laboratory Textbook

By Thomas P. Barnwell, Kambiz Nayebi, Craig H. Richardson

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Puts a wealth of speech analysis tools at your fingertips and allows the reader to gain good intuitive sense of how modern speech coders work. Covers all the basic approaches found in speech coding and describes the algorithms in both simple parametric terms and complete equation form. The book is packed with exercises and projects for hands-on experimentation with algorithms. Plus, the accompanying user-friendly, graphical interface software helps to develop a practical, intuitive sense of how modern speech coders work.

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- Sales Rank: #4139977 in Books
- Published on: 1995-12-18
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .50" w x 7.10" l, .87 pounds
- Binding: Paperback
- 208 pages

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Editorial Review

Review
Solutions Manual available. -- *The publisher, John Wiley & Sons*

From the Publisher
Enables readers to gain an intuitive sense of how modern speech coders work, covering all the basic techniques found in speech coding. Describes the speech coding algorithms in simple parametric terms as well as complete equation form. Includes more than 70 exercises and projects. The accompanying easy-to-use software permits users to perform a wide variety of speech coding and speech processing experiments. The environment is menu driven, graphically oriented and contains a context-sensitive help capability.

From the Back Cover
The Only Book/Disk Package Available That Offers Hands-On Experience With Speech Coding! Speech Coding: A Computer Laboratory Textbook Thomas P. Barnwell, III, Georgia Institute of Technology Kambiz Nayebi, Sharif University Craig H. Richardson, Atlanta Signal Processors, Inc. This latest entry in the Georgia Tech Digital Signal Processing Laboratory Series— a laboratory series for DSP which operates on PCs— offers you a hands-on experience with speech processing, in particular speech coding. Born out of the need for laboratory materials for the Digital Signal Processing program at Georgia Tech, this book/disk package covers all the basic approaches found in modern speech coders. A DOS-based PC with a floating point processor and the software that accompanies this book are all you need to develop a practical, intuitive sense of how modern speech coders work, and receive a truly deep understanding of the principles of speech coding. You'll find complete coverage of the state-of-the-field, including pulse code modulators… adaptive pulse code modulators… adaptive differential pulse code modulation … adaptive predictive coders… linear predictive coders… code excited linear predictive coders… multi-pulse excited linear predictive coders… subband coders… transform coders, and much more. Speech Coding: A Computer Laboratory Textbook:

- Puts a wealth of speech analysis tools at your fingertips
- Is packed with exercises and projects for hands-on experimentation with algorithms
- Describes speech coding algorithms in both simple parametric terms and complete equation form
- Includes a short, concise description of speech coders for easy reference
- Can add a hands-on, practical dimension to any speech processing book you choose

Plus, the DSP laboratory software that accompanies this book features a powerful graphical user interface that makes it easy to use. With pull-down menus, interactive graphics, extensive analysis programs, and help functions, anyone can use the software with little or no training. Other Titles in the Georgia Tech Digital Signal Processing Laboratory Series: Introduction to Digital Signal Processing: A Computer Laboratory Textbook Mark J. T. Smith, Georgia institute of Technology Russell M. Mersereau, Georgia Institute of Technology 51693-7, 250 pp., cloth, 1992 Digital Filtering: A Computer Laboratory Textbook Russell M. Mersereau, Georgia Institute of Technology Mark J. T. Smith, Georgia Institute of Technology 51694-5, 224 Pages, 1994

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Donald Perkins:

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