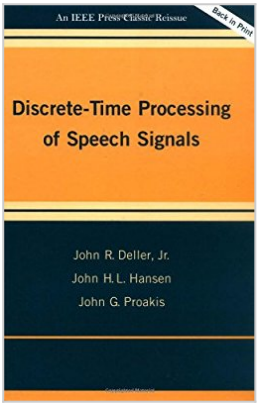

Discrete-Time Processing of Speech Signals

By John R. Deller Jr., John H. L. Hansen, John G. Proakis

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Commercial applications of speech processing and recognition are fast becoming a growth industry that will shape the next decade. Now students and practicing engineers of signal processing can find in a single volume the fundamentals essential to understanding this rapidly developing field. IEEE Press is pleased to publish a classic reissue of *Discrete-Time Processing of Speech Signals*. Specially featured in this reissue is the addition of valuable World Wide Web links to the latest speech data references.

This landmark book offers a balanced discussion of both the mathematical theory of digital speech signal processing and critical contemporary applications. The authors provide a comprehensive view of all major modern speech processing areas: speech production physiology and modeling, signal analysis techniques, coding, enhancement, quality assessment, and recognition. You will learn the principles needed to understand advanced technologies in speech processing -- from speech coding for communications systems to biomedical applications of speech analysis and recognition.

Ideal for self-study or as a course text, this far-reaching reference book offers an extensive historical context for concepts under discussion, end-of-chapter problems, and practical algorithms. *Discrete-Time Processing of Speech Signals* is the definitive resource for students, engineers, and scientists in the speech processing field.

An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley Makerting Department.

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- Sales Rank: #2565633 in Books
- Brand: John Wiley & Sons Inc
- Published on: 1999-10-05
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.17" h x 2.13" w x 6.24" l, 3.00 pounds
- Binding: Hardcover
- 936 pages

Editorial Review

From the Publisher
This book covers the essential aspects of modern speech processing-- analysis, synthesis and coding, enhancement and quality assessment, and recognition. It also contains a comprehensive review of fundamental topics such as signal processing, stochastic processes, pattern recognition, and information theory, and includes an extensive background bibliography. The book provides state-of-the-art information for advanced research and development in the computer processing of speech, and gives the reader a thorough understanding of speech processing concepts.

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Electrical Engineering Discrete-Time Processing of Speech Signals Commercial applications of speech processing and recognition are fast becoming a growth industry that will shape the next decade. Now students and practicing engineers of signal processing can find in a single volume the fundamentals essential to understanding this rapidly developing field. IEEE Press is pleased to publish a classic reissue of Discrete-Time Processing of Speech Signals. Specially featured in this reissue is the addition of valuable World Wide Web links to the latest speech data references. This landmark book offers a balanced discussion of both the mathematical theory of digital speech signal processing and critical contemporary applications. The authors provide a comprehensive view of all major modern speech processing areas: speech production physiology and modeling, signal analysis techniques, coding, enhancement, quality assessment, and recognition. You will learn the principles needed to understand advanced technologies in speech processing—from speech coding for communications systems to biomedical applications of speech analysis and recognition. Ideal for self-study or as a course text, this far-reaching reference book offers an extensive historical context for concepts under discussion, end-of-chapter problems, and practical algorithms. Discrete-Time Processing of Speech Signals is the definitive resource for students, engineers, and scientists in the speech processing field.

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