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6 The u X 1 PM DFT Algorithms; 6.1 The u x 1 PM DIT DFT Algorithms; 6.2 The 2 x 1 PM DIT DFT Algorithm; 6.3 Reordering of the Input Data; 6.4 Computation of a Single DFT Coefficient; 6.5 The u x 1 PM DIF DFT Algorithms; 6.6 The 2 x 1 PM DIF DFT Algorithm; 6.7 Computational Complexity of the 2 x 1 PM DFT Algorithms; 6.8 The 6 x 1 PM DIT DFT Algorithm; 6.9 Flow Chart Description of the 2 x 1 PM DIT DFT Algorithm; 6.10 Summary; Chapter 7 The 2 x 2 PM DFT Algorithms; 7.1 The 2 x 2 PM DIT DFT Algorithm 7.2 The 2 x 2 PM DIF DFT Algorithm 7.3 Computational Complexity of the 2 x 2 PM DFT Algorithms; 7.4 Summary; Chapter 8 DFT Algorithms for Real Data - I; 8.1 The Direct Use of an Algorithm for Complex Data; 8.2 Computation of the DFTs of Two Real Data Sets at a Time; 8.3 Computation of the DFT of a Single Real Data Set; 8.4 Summary; Chapter 9 DFT Algorithms for Real Data - II; 9.1 The Storage of Data in PM RDFT and RIDFT Algorithms; 9.2 The 2 x 1 PM DIT RDFT Algorithm; 9.3 The 2 x 1 PM DIF RIDFT Algorithm; 9.4 The 2 x 2 PM DIT RDFT Algorithm; 9.5 The 2 x 2 PM DIF RIDFT Algorithm 9.6 Summary and Discussion Chapter 10 Two-Dimensional Discrete Fourier Transform; 10.1 The 2-D DFT and IDFT; 10.2 DFT Representation of Some 2-D Signals; 10.3 Computation of the 2-D DFT; 10.4 Properties of the 2-D DFT; 10.5 The 2-D PM DFT Algorithms; 10.6 Summary; Chapter 11 Aliasing and Other Effects; 11.1 Aliasing Effect; 11.2 Leakage Effect; 11.3 Picket-Fence Effect; 11.4 Summary and Discussion; Chapter 12 The Continuous-Time Fourier Series; 12.1 The 1-D Continuous-Time Fourier Series; 12.2 The 2-D Continuous-Time Fourier Series; 12.3 Summary Chapter 13 The Continuous-Time Fourier Transform

Sommario/riassunto

This authoritative book provides comprehensive coverage of practical Fourier analysis. It develops the concepts right from the basics and gradually guides the reader to the advanced topics. It presents the latest and practically efficient DFT algorithms, as well as the computation of discrete cosine and Walsh-Hadamard transforms. The large number of visual aids such as figures, flow graphs and flow charts makes the mathematical topic easy to understand. In addition, the numerous examples and the set of C-language programs (a supplement to the book) help greatly in understanding the theory and

2. Record Nr.	UNISALENTO991002963309707536
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