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Introductory Signal Processing Roland Priemer, 1991 A valuable introduction to the fundamentals of continuous and discrete time signal processing this book is intended for the reader with little or no background in this subject The emphasis is on development from basic principles With this book the reader can become knowledgeable about both the theoretical and practical aspects of digital signal processing Some special features of this book are 1 gradual and step by step development of the mathematics for signal processing 2 numerous examples and homework problems 3 evolutionary development of Fourier series Discrete Fourier Transform Fourier Transform Laplace Transform and Z Transform 4 emphasis on the relationship between continuous and discrete time signal processing 5 many examples of using the computer for applying the theory 6 computer based assignments to gain practical insight 7 a set of computer programs to aid the reader in applying the theory

Handbook of Pattern Recognition and Computer Vision C. H. Chen, L. F. Pau, P. S. Wang, 1993-08 The book provides an up to date and authoritative treatment of pattern recognition and computer vision with chapters written by leaders in the field On the basic methods in pattern recognition and computer vision topics range from statistical pattern recognition to array grammars to projective geometry to skeletonization and shape and texture

measures BOOK JACKET A Computer Program Package for Introductory One-Dimensional Digital Signal Processing Applications, 1988 A need existed for a set of computer programs which could be used by students to solve elementary digital signal processing problems using a personal computer This project involved the design and implementation of ten algorithms that solve such problems and an additional algorithms that creates plots of the various input and output sequences The two primary goals of the programs were 1 User friendliness and 2 Portability With these goals in mind the source code was written using FORTRAN 77 and compiled by a commercially available FORTRAN compiler specifically designed for personal computers The plotting program uses a FORTRAN compatible graphics package that is also commercially available The programs once compiled can be distributed to users without the requirement to purchase either a FORTRAN compiler or a graphics package however access to a FORTRAN compiler enhances the utility of the programs Author **A Computer Program Package for Introductory One-Dimensional Digital Signal Processing Applications** Frank Edward Hudik, Donald E. Kirk, NAVAL POSTGRADUATE SCHOOL MONTEREY CA., 1988 A need existed for a set of computer programs which could be used by students to solve elementary digital signal processing problems using a personal computer This project involved the design and implementation of ten algorithms that solve such problems and an additional algorithms that creates plots of the various input and output sequences The two primary goals of the programs were 1 User friendliness and 2 Portability With these goals in mind the source code was written using FORTRAN 77 and compiled by a commercially available FORTRAN compiler specifically designed for personal computers The plotting program uses a FORTRAN compatible graphics package that is also commercially available The programs once compiled can be distributed to users without the requirement to purchase either a FORTRAN compiler or a graphics package however access to a FORTRAN compiler enhances the utility of the programs Author *Digital Signal Processing with C and the TMS320C30* Rulph Chassaing, 1992-11-18 Digital Signal Processing With the TMS320C25 Rulph Chassaing and Darrell W Horning Two leading experts in the field offer detailed state of the art guidance on building digital signal processing tools Through the development of actual programming examples the book demonstrates how DSP theory is put to practical use Current problems in digital signal filtering such as finite impulse response filters infinite impulse response filters and fast Fourier transform are addressed through the step by step implementation of assembly language code for a modern real time digital signal processor the TMS320C25 Hardware considerations specific to the TMS320C25 such as memory organization addressing modes and representation of fixed and floating point numbers are discussed in relation to software development 1990 0 471 51066 1 464 pp Digital Filter Design T W Parks and C S Burrus The book is excellently written and fully illustrated it will soon become a reference book in the area of digital filter design Mathematics Abstracts With coverage from basic theory to working programs this clear practical text addresses frequency domain analysis design and implementation of linear constant coefficient digital filters on general purpose computers and special purpose signal processors Offering a

complete self contained treatment of both FIR and IIR filters a feature unique to this text the book examines their underlying design theory design formulas and algorithms Detailed coverage also includes a discussion of filter properties the approximation problem and implementation of the filter with fixed point arithmetic The book also includes detailed examples that illustrate the design and implementation of a typical filter as well as listings for nine FORTRAN programs for filter design 1987 0 471 82896 3 342 pp

DFT FFT And Convolution Algorithms Theory and Implementation C S Burrus and T W Parks Written for the scientist or engineer conversant with continuous time signals and discrete time signal analysis this book details the Fourier transform of a discrete time signal Efficient algorithms for computing the Discrete Fourier Transform DFT are given special emphasis Coverage includes continuous and discrete time transform analysis of signals and properties of the DFT methods of computing the DFT at a few frequencies direct Goertzel and chirp transforms and the three main approaches to an FFT Cooley Tukey primefactor and Winograd transforms The book also features FORTRAN programs for the DFT which may be used directly or as a basis for custom program development for special applications 1985 0 471 81932 8 232 pp

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