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# Electromagnetic Devices for Motion Control and Signal Processing

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# Electromagnetic Devices For Motion Control And Signal Processing

**Yicheng Fang**



## **Electromagnetic Devices For Motion Control And Signal Processing:**

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and capacitive media to generate a variety of low noise LC filters and other signal processing devices

**Algorithms for Discrete Fourier Transform and Convolution** Richard Tolimieri, Myoung An, Chao Lu, 2013-03-09 This book is based on several courses taught during the years 1985-1989 at the City College of the City University of New York and at Fudan University Shanghai China in the summer of 1986. It was originally our intention to present to a mixed audience of electrical engineers, mathematicians, and computer scientists at the graduate level a collection of algorithms that would serve to represent the vast array of algorithms designed over the last twenty years for computing the finite Fourier transform, FFT, and finite convolution. However, it was soon apparent that the scope of the course had to be greatly expanded. For researchers interested in the design of new algorithms, a deeper understanding of the basic mathematical concepts underlying algorithm design was essential. At the same time, a large gap remained between the statement of an algorithm and the implementation of the algorithm. The main goal of this text is to describe tools that can serve both of these needs. In fact, it is our belief that certain mathematical ideas provide a natural language and culture for understanding, unifying, and implementing a wide range of digital signal processing (DSP) algorithms. This belief is reinforced by the complex and time-consuming effort required to write code for recently available parallel and vector machines. A significant part of this text is devoted to establishing rules and procedures that reduce and, at times, automate this task.

**Mathematics of Multidimensional Fourier Transform Algorithms** Richard Tolimieri, Myoung An, Chao Lu, 2012-12-06 The Fourier transform of large multidimensional data sets is an essential computation in many scientific and engineering fields, including seismology, X-ray crystallography, radar, sonar, and medical imaging. Such fields require multidimensional arrays for complete and faithful modeling. Classically, a set of data is processed one dimension at a time, permitting control over the size of the computation and calling on well-established 1-dimensional programs. The rapidly increasing availability of powerful computing chips, vector processors, multinode boards, and parallel machines has provided new tools for carrying out multidimensional computations. Multidimensional processing offers a wider range of possible implementations as compared to 1-dimensional, the greater flexibility of movement in the data in processing due to dithering. This increased freedom, along with the massive size of data sets typically found in multidimensional applications, places intensive demands on the communication aspects of the computation. The writing of code that takes into account all the algorithmic possibilities and matches these possibilities to the communication capabilities of the target architecture is an extremely time-consuming task. A major goal of this text is to provide a sufficiently abstract

*Distributed Detection and Data Fusion* Pramod K. Varshney, 2012-12-06 This book provides an introductory treatment of the fundamentals of decision making in a distributed framework. Classical detection theory assumes that complete observations are available at a central processor for decision making. More recently, many applications have been identified in which observations are processed in a distributed manner and decisions are made at the distributed processors or processed data (compressed observations) are conveyed to a fusion center that makes the global decision.

Conventional detection theory has been extended so that it can deal with such distributed detection problems. A unified treatment of recent advances in this new branch of statistical decision theory is presented. Distributed detection under different formulations and for a variety of detection network topologies is discussed. This material is not available in any other book and has appeared relatively recently in technical journals. The level of presentation is such that the book can be used as a graduate level textbook. Numerous examples are presented throughout the book. It is assumed that the reader has been exposed to detection theory. The book will also serve as a useful reference for practicing engineers and researchers. I have actively pursued research on distributed detection and data fusion over the last decade which ultimately interested me in writing this book. Many individuals have played a key role in the completion of this book.

Lectures on Discrete Time Filtering R.S. Bucy, 2012-12-06. The theory of linear discrete time filtering started with a paper by Kolmogorov in 1941. He addressed the problem for stationary random sequences and introduced the idea of the innovations process which is a useful tool for the more general problems considered here. The reader may object and note that Gauss discovered least squares much earlier however I want to distinguish between the problem of parameter estimation the Gauss problem and that of Kolmogorov estimation of a process. This separation is of more than academic interest as the least squares problem leads to the normal equations which are numerically ill conditioned while the process estimation problem in the linear case with appropriate assumptions leads to uniformly asymptotically stable equations for the estimator and the gain. The conditions relate to controllability and observability and will be detailed in this volume. In the present volume we present a series of lectures on linear and nonlinear sequential filtering theory. The theory is due to Kalman for the linear colored observation noise problem in the case of white observation noise it is the analog of the continuous time Kalman-Bucy theory. The discrete time filtering theory requires only modest mathematical tools in counterpoint to the continuous time theory and is aimed at a senior level undergraduate course. The present book organized by lectures is actually based on a course that meets once a week for three hours with each meeting constituting a lecture.

IEEE Circuits & Devices, 1992    The Militarily Critical Technologies List, 1992    **Mathematics of Multidimensional Fourier Transform Algorithms** Richard Tolimieri, Myoung An, Chao Lu, 1993    **International Books in Print**, 1997    Robotic Nondestructive Testing Technology Chunguang Xu, 2022-09-27. The content of this book includes a variety of nondestructive testing (NDT) methods with many introductions to testing and application cases. The book proposes new ultrasonic testing technology for complex workpieces. It is hard for traditional NDT technology to realize the automatic detection of complex curved components especially the automatic high precision nondestructive detection of curved surface components with variable curvature, variable thickness and complex contour. Therefore the robotic NDT technique as a combination of manipulator technique and NDT technique can further improve the efficiency and accuracy of NDT. Robotic NDT Technique combines the physical principle of nondestructive testing with the flexible motion control of spatial attitude of articulated manipulator. With NDT as the

constraint it controls the motion attitude and azimuth angle of a transmitting and receiving transducer Thus traditional NDT technique has developed from plane to curved surface from 2D to many dimensions and from artificiality to intelligence into a unique and systematic interdisciplinary robotic NDT technique International Conference on Applications and Techniques in Cyber Intelligence ATCI 2019 Jemal H. Abawajy, Kim-Kwang Raymond Choo, Rafiqul Islam, Zheng Xu, Mohammed Atiquzzaman, 2019-07-31 This book presents innovative ideas cutting edge findings and novel techniques methods and applications in a broad range of cybersecurity and cyberthreat intelligence areas As our society becomes smarter there is a corresponding need to be able to secure our cyberfuture The approaches and findings described in this book are of interest to businesses and governments seeking to secure our data and underpin infrastructures as well as to individual users *The Cumulative Book Index* ,1994 A world list of books in the English language **Hydraulic Equipment and Support Systems for Mining** Zhong You, 2012-12-13 Selected peer reviewed papers from the First International Workshop on Hydraulic Equipment and Support Systems for Mining IWHEM 2012 August 17 18 2012 Huludao China Subject Guide to Books in Print ,1996 **American Book Publishing Record** ,1992 □□□□□□□□ ,1993 **A Sensorless Moving Coil Actuator Motion Control System** Kevin T. Ousdigian, 1994 *Power Electronics and Variable Frequency Drives* Bimal K. Bose, 1997 This original contributed volume combines the individual expertise of eleven world renowned professionals to provide comprehensive authoritative coverage of state of the art power electronics and AC drive technology Featuring an extensive introductory chapter by power electronics expert Bimal K Bose and more than 400 figures POWER ELECTRONICS AND VARIABLE FREQUENCY DRIVES covers each of the field s component disciplines and drives all in one complete resource Broad in scope and unique in its presentation this volume belongs on the bookshelf of every industry engineer professor graduate student and researcher involved in this fast growing multidisciplinary field It is an essential for teaching research development and design Scientific and Technical Aerospace Reports ,1985

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