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Mathematics of Multidimensional Fourier Transform Algorithms



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Yan-Zhong Zhang, Yufen Yao



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Fast Fourier Transform and Convolution Algorithms H.J. Nussbaumer, 2013-03-08 This book presents in a unified way the various fast algorithms that are used for the implementation of digital filters and the evaluation of discrete Fourier transforms. The book consists of eight chapters. The first two chapters are devoted to background information and to introductory material on number theory and polynomial algebra. This section is limited to the basic concepts as they apply to other parts of the book. Thus we have restricted our discussion of number theory to congruences, primitive roots, quadratic residues, and to the properties of Mersenne and Fermat numbers. The section on polynomial algebra deals primarily with the divisibility and congruence properties of polynomials and with algebraic computational complexity. The rest of the book is focused directly on fast digital filtering and discrete Fourier transform algorithms. We have attempted to present these techniques in a unified way by using polynomial algebra as extensively as possible. This objective has led us to reformulate many of the algorithms which are discussed in the book. It has been our experience that such a presentation serves to clarify the relationship between the algorithms and often provides clues to improved computation techniques. Chapter 3 reviews the fast digital filtering algorithms with emphasis on algebraic methods and on the evaluation of one-dimensional circular convolutions. Chapters 4 and 5 present the fast Fourier transform and the Winograd Fourier transform algorithm. *Fast Fourier Transforms* C. Sidney Burrus, 2012-11-30 This book uses an index map, a polynomial decomposition, an operator factorization, and a

conversion to a filter to develop a very general and efficient description of fast algorithms to calculate the discrete Fourier transform DFT The work of Winograd is outlined chapters by Selesnick Pueschel and Johnson are included and computer programs are provided Twentieth Century Harmonic Analysis J.S. Byrnes,2012-12-06 Almost a century ago harmonic analysis entered a still continuing Golden Age with the emergence of many great masters throughout Europe They created a wealth of profound analytic methods to be successfully exploited and further developed by succeeding generations This flourishing of harmonic analysis is today as lively as ever as the papers presented here demonstrate In addition to its own ongoing internal development and its basic role in other areas of mathematics physics and chemistry financial analysis medicine and biological signal processing harmonic analysis has made fundamental contributions to essentially all twentieth century technology based human endeavours including telephone radio television radar sonar satellite communications medical imaging the Internet and multimedia This ubiquitous nature of the subject is amply illustrated The book not only promotes the infusion of new mathematical tools into applied harmonic analysis but also to fuel the development of applied mathematics by providing opportunities for young engineers mathematicians and other scientists to learn more about problem areas in today s technology that might benefit from new mathematical insights Fast Algorithms for Signal Processing Richard E. Blahut,2010-06-24 Efficient signal processing algorithms are important for embedded and power limited applications since by reducing the number of computations power consumption can be reduced significantly Similarly efficient algorithms are also critical to very large scale applications such as video processing and four dimensional medical imaging This self contained guide the only one of its kind enables engineers to find the optimum fast algorithm for a specific application It presents a broad range of computationally efficient algorithms describes their structure and implementation and compares their relative strengths for given problems All the necessary background mathematics is included and theorems are rigorously proved so all the information needed to learn and apply the techniques is provided in one convenient guide With this practical reference researchers and practitioners in electrical engineering applied mathematics and computer science can reduce power dissipation for low end applications of signal processing and extend the reach of high end applications **Fast Fourier Transform and Convolution Algorithms** Henri J Nussbaumer,1982-09-01

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