

# Discrete Hartley transform

A **discrete Hartley transform (DHT)** is a Fourier-related transform of discrete, periodic data similar to the discrete Fourier transform (DFT), with analogous applications in signal processing and related fields. Its main distinction from the DFT is that it transforms real inputs to real outputs, with no intrinsic involvement of complex numbers. Just as the DFT is the discrete analogue of the continuous Fourier transform (FT), the DHT is the discrete analogue of the continuous Hartley transform (HT), introduced by Ralph V. L. Hartley in 1942.<sup>[1]</sup>

Because there are fast algorithms for the DHT analogous to the fast Fourier transform (FFT), the DHT was originally proposed by Ronald N. Bracewell in 1983<sup>[2]</sup> as a more efficient computational tool in the common case where the data are purely real. It was subsequently argued, however, that specialized FFT algorithms for real inputs or outputs can ordinarily be found with slightly fewer operations than any corresponding algorithm for the DHT.

## Definition

Formally, the discrete Hartley transform is a linear, invertible function  $H: \mathbf{R}^N \rightarrow \mathbf{R}^N$  (where  $\mathbf{R}$  denotes the set of real numbers). The  $N$  real numbers  $x_0, \dots, x_{N-1}$  are transformed into the  $N$  real numbers  $H_0, \dots, H_{N-1}$  according to the formula

$$H_k = \sum_{n=0}^{N-1} x_n \operatorname{cas}\left(\frac{2\pi}{N}nk\right) = \sum_{n=0}^{N-1} x_n \left[ \cos\left(\frac{2\pi}{N}nk\right) + \sin\left(\frac{2\pi}{N}nk\right) \right] \quad k = 0, \dots, N-1.$$

The combination  $\cos(x) + \sin(x) = \sqrt{2} \cos\left(x - \frac{\pi}{4}\right)$  is sometimes denoted **cas**(*x*), and should not be confused with **cis**(*x*) =  $e^{ix} = \cos(x) + i \sin(x)$ , or  $e^{-ix} = \operatorname{cis}(-x)$  which appears in the DFT definition (where *i* is the imaginary unit).

As with the DFT, the overall scale factor in front of the transform and the sign of the sine term are a matter of convention. Although these conventions occasionally vary between authors, they do not affect the essential properties of the transform.

## Properties

The transform can be interpreted as the multiplication of the vector  $(x_0, \dots, x_{N-1})$  by an  $N$ -by- $N$  matrix; therefore, the discrete Hartley transform is a linear operator. The matrix is invertible; the inverse transformation, which allows one to recover the  $x_n$  from the  $H_k$ , is simply the DHT of  $H_k$  multiplied by  $1/N$ . That is, the DHT is its own inverse (involutory), up to an overall scale factor.

The DHT can be used to compute the DFT, and vice versa. For real inputs  $x_n$ , the DFT output  $X_k$  has a real part  $(H_k + H_{N-k})/2$  and an imaginary part  $(H_{N-k} - H_k)/2$ . Conversely, the DHT is equivalent to computing the DFT of  $x_n$  multiplied by  $1 + i$ , then taking the real part of the result.

# Hartley Transforms

**K Morrison**



## Hartley Transforms:

**The Hartley Transform** Ronald Newbold Bracewell, 1986 The author describes the fast algorithm he discovered for spectral analysis and indeed any purpose to which Fourier Transforms and the Fast Fourier Transform are normally applied

**Transforms and Applications Handbook** Alexander D. Poularikas, 2018-09-03 Updating the original Transforms and Applications Handbook Third Edition solidifies its place as the complete resource on those mathematical transforms most frequently used by engineers scientists and mathematicians Highlighting the use of transforms and their properties this latest edition of the bestseller begins with a solid introduction to signals and systems including properties of the delta function and some classical orthogonal functions It then goes on to detail different transforms including lapped Mellin wavelet and Hartley varieties Written by top experts each chapter provides numerous examples and applications that clearly demonstrate the unique purpose and properties of each type The material is presented in a way that makes it easy for readers from different backgrounds to familiarize themselves with the wide range of transform applications Revisiting transforms previously covered this book adds information on other important ones including Finite Hankel Legendre Jacobi Gegenbauer Laguerre and Hermite Fraction Fourier Zak Continuous and discrete Chirp Fourier Multidimensional discrete unitary Hilbert Huang Most comparable books cover only a few of the transforms addressed here making this text by far the most useful for anyone involved in signal processing including electrical and communication engineers mathematicians and any other scientist working in this field

*Transforms and Fast Algorithms for Signal Analysis and Representations* Guoan Bi, Yonghong Zeng, 2012-12-06 that is what learning is You suddenly understand something you've understood all your life but in a new way Various transforms have been widely used in diverse applications of science engineering and technology New transforms are emerging to solve many problems which may have been left unsolved in the past or newly created by modern science or technologies Various methods have been continuously reported to improve the implementation of these transforms Early developments of fast algorithms for discrete transforms have significantly stimulated the advance of digital signal processing technologies More than 40 years after fast Fourier transform algorithms became known several discrete transforms including the discrete Hartley transform and discrete cosine transform were proposed and widely used for numerous applications Although they all are related to the discrete Fourier transform different fast algorithms and their implementations have to be separately developed to minimize computational complexity and implementation costs In spite of the tremendous increase in the speed of computers or processors the demands for higher processing throughout seemingly never ends Fast algorithms have become more important than ever for modern applications to become a reality Many new algorithms recently reported in the literature have led to important improvements upon a number of issues which will be addressed in this book Some discrete transforms are not suitable for signals that have time varying frequency components Although several approaches are available for such applications various inherent problems still remain unsolved

*Multidimensional Discrete Unitary Transforms* Artyom M. Grigoryan, Sos S. Aghaian, 2003-07-31 This reference presents a more efficient flexible and manageable approach to unitary transform calculation and examines novel concepts in the design classification and management of fast algorithms for different transforms in one two and multidimensional cases Illustrating methods to construct new unitary transforms for best algorithm selection and development in real world applications the book contains a wide range of examples to compare the efficacy of different algorithms in a variety of one two and three dimensional cases Multidimensional Discrete Unitary Transforms builds progressively from simple representative cases to higher levels of generalization

Wavelet Transforms Firdous A. Shah, Azhar Y. Tantar, 2022-11-28 Wavelet Transforms Kith and Kin serves as an introduction to contemporary aspects of time frequency analysis encompassing the theories of Fourier transforms wavelet transforms and their respective offshoots This book is the first of its kind totally devoted to the treatment of continuous signals and it systematically encompasses the theory of Fourier transforms wavelet transforms geometrical wavelet transforms and their ramifications The authors intend to motivate and stimulate interest among mathematicians computer scientists engineers and physical chemical and biological scientists The text is written from the ground up with target readers being senior undergraduate and first year graduate students and it can serve as a reference for professionals in mathematics engineering and applied sciences Features Flexibility in the book s organization enables instructors to select chapters appropriate to courses of different lengths emphasis and levels of difficulty Self contained the text provides an impetus to the contemporary developments in the signal processing aspects of wavelet theory at the forefront of research A large number of worked out examples are included Every major concept is presented with explanations limitations and subsequent developments with emphasis on applications in science and engineering A wide range of exercises are incorporated in varying levels from elementary to challenging so readers may develop both manipulative skills in theory wavelets and deeper insight Answers and hints for selected exercises appear at the end The origin of the theory of wavelet transforms dates back to the 1980s as an outcome of the intriguing efforts of mathematicians physicists and engineers Owing to the lucid mathematical framework and versatile applicability the theory of wavelet transforms is now a nucleus of shared aspirations and ideas

**Handbook of Function and Generalized Function Transformations** Ahmed I. Zayed, 2019-08-21 Function transformations which include linear integral transformations are some of the most important mathematical tools for solving problems in all areas of engineering and the physical sciences They allow one to quickly solve a problem by breaking it down into a series of smaller more manageable problems The author has compiled the most important and widely used of these function transforms in applied mathematics and electrical engineering In addition to classical transforms newer transforms such as wavelets Zak and Radon are included The book is neither a table of transforms nor a textbook but it is a source book that provides quick and easy access to the most important properties and formulas of function and generalized function transformations

**The Transforms and Applications**

**Handbook** Alexander D. Poularikas,1996 This handbook brings together in a single volume the most important mathematical transforms used by engineers and scientists It begins with a treatment of the delta function and some of the classical orthogonal functions The book covers transforms such as Fourier Transforms Cosine and Sine Transforms Harley Transforms Laplace Transforms Z Transforms Hilbert Transforms Radon and Abel Transforms Time Frequency Transformations Wavelet Transforms Hankel Transforms and Mellin Transforms Applications and examples are included The Fourier Transform and Its Applications Ronald Newbold Bracewell,2000 This text is designed for use in a senior undergraduate or graduate level course in Fourier Transforms This text differs from many other fourier transform books in its emphasis on applications Bracewell applies mathematical concepts to the physical world throughout this text equipping students to think about the world and physics in terms of transforms The pedagogy in this classic text is excellent The author has included such tools as the pictorial dictionary of transforms and bibliographic references In addition there are many excellent problems throughout this book which are more than mathematical exercises often requiring students to think in terms of specific situations or asking for educated opinions To aid students further discussions of many of the problems can be found at the end of the book

**IETE Technical Review** ,1993 **The Fast Hartley Transform as an Alternative to the Fast Fourier Transform** ,1988 A comparison is made between the Discrete Hartley Transform and Discrete Fourier Transform algorithms the Fast Hartley Transform is examined as an alternative to the Fast Fourier Transform for signal processing in the Jindalee Over The Horizon Radar project Keywords Algorithms Fast Fourier transforms Signal processing Over the horizon radar Australia Stanford Exploration Project ,1984 Hilbert Transforms in Signal Processing Stefan L. Hahn,1996 This book presents a first ever detailed analysis of the complex notation of 2 D and 3 D signals and describes how you can apply it to image processing modulation and other fields It helps you significantly reduce your literature research time better enables you to simulate signals and communication systems and helps you to design compatible single sideband systems **Power Systems Harmonics** Enrique Acha,Manuel Madrigal,2001-06-11 The deregulation and restructuring of the power utilities industry has made the quality of power supply a worldwide issue Providing background theory and illustrative examples this text provides a broad introduction to the issues involved **Input/output and Imaging Technologies** ,1998 **Japanese Journal of Applied Physics** ,1990 Government Reports Announcements & Index ,1988 *Selected Papers on Optical Correlators* Suganda Jutamulia,1993 Bulletin of the Belgian Mathematical Society, Simon Stevin ,2006 **1st IASTED International Symposium on Signal Processing and Its Applications** ,1987 **Optics Index** ,1990

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