

Lecture 7 - The Discrete Fourier Transform

7.1 The DFT

The Discrete Fourier Transform (DFT) is the equivalent of the continuous Fourier Transform for signals known only at N instants separated by sample times T (i.e. a finite sequence of data).

Let $f(t)$ be the continuous signal which is the source of the data. Let N samples be denoted $f[0], f[1], f[2], \dots, f[k], \dots, f[N-1]$.

The Fourier Transform of the original signal, $f(t)$, would be

$$F(j\omega) = \int_{-\infty}^{\infty} f(t)e^{-j\omega t} dt$$

We could regard each sample $f[k]$ as an *impulse* having area $f[k]$. Then, since the integrand exists only at the sample points:

$$\begin{aligned} F(j\omega) &= \int_0^{(N-1)T} f(t)e^{-j\omega t} dt \\ &= f[0]e^{-j\omega 0} + f[1]e^{-j\omega T} + \dots + f[k]e^{-j\omega kT} + \dots + f[(N-1)]e^{-j\omega(N-1)T} \end{aligned}$$

$$\text{i.e. } F(j\omega) = \sum_{k=0}^{N-1} f[k]e^{-j\omega kT}$$

We could in principle evaluate this for any ω , but with only N data points to start with, only N final outputs will be significant.

You may remember that the continuous Fourier transform could be evaluated over a finite interval (usually the fundamental period T_p) rather than from $-\infty$ to

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Fourier Transformation for Pedestrians Tilman Butz, 2015-05-12 This book is an introduction to Fourier Transformation with a focus on signal analysis based on the first edition It is well suited for undergraduate students in physics mathematics electronic engineering as well as for scientists in research and development It gives illustrations and recommendations when using existing Fourier

programs and thus helps to avoid frustrations Moreover it is entertaining and you will learn a lot unconsciously Fourier series as well as continuous and discrete Fourier transformation are discussed with particular emphasis on window functions Filter effects of digital data processing are illustrated Two new chapters are devoted to modern applications The first deals with data streams and fractional delays and the second with the back projection of filtered projections in tomography There are many figures and mostly easy to solve exercises with solutions

Plasma Physics Andreas Dinklage,Thomas Klinger,Gerrit Marx,Lutz Schweikhard,2005-06-09 Plasma Physics Confinement Transport and Collective Effects provides an overview of modern plasma research with special focus on confinement and related issues Beginning with a broad introduction the book leads graduate students and researchers also those from related fields to an understanding of the state of the art in modern plasma physics Furthermore it presents a methodological cross section ranging from plasma applications and plasma diagnostics to numerical simulations the latter providing an increasingly important link between theory and experiment Effective references guide the reader from introductory texts through to contemporary research Some related exercises in computational plasma physics are supplied on a special web site

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Electrical & Electronics Abstracts ,1988 *The Discrete Fourier Transform* D. Sundararajan,2001 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 algorithms Discrete Fourier analysis is covered first followed by the continuous case as the discrete case is easier to grasp and is very important in practice This book will be useful as a text for regular or professional courses on Fourier analysis and also as a supplementary text for courses on discrete signal processing image processing communications engineering and vibration analysis Errata s Preface Page viii www wspc com others software 4610 The above links should be replaced with www worldscientific com doi suppl 10 1142 4610 suppl_file 4610_software_free zip

Lectures on the Fourier Transform and Its Applications Brad G. Osgood,2019-01-18 This book is derived from lecture notes for a course on Fourier analysis for engineering and science students at the advanced undergraduate or beginning graduate level Beyond teaching

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