

### **the fractional fourier transform pdf**

Actually, fractional Fourier transform is a rotation operation on the time frequency distribution. From the definition above, for  $\hat{t} = 0$ , there will be no change after applying fractional Fourier transform, and for  $\hat{t} = \hat{t}/2$ , fractional Fourier transform becomes a Fourier transform, which rotates the time frequency distribution with  $\hat{t}/2$ . For other value of  $\hat{t}$ , fractional Fourier transform ...

### **Fractional Fourier transform - Wikipedia**

In mathematics, the discrete Fourier transform (DFT) converts a finite sequence of equally-spaced samples of a function into a same-length sequence of equally-spaced samples of the discrete-time Fourier transform (DTFT), which is a complex-valued function of frequency. The interval at which the DTFT is sampled is the reciprocal of the duration of the input sequence.

### **Discrete Fourier transform - Wikipedia**

Now consider generalization to the case of a discrete function, by letting  $x[n]$ , where  $n$  is an integer, with  $n = 0, 1, \dots, N-1$ . Writing this out gives the discrete Fourier transform as

### **Discrete Fourier Transform -- from Wolfram MathWorld**

The fast Fourier transform (FFT) is a discrete Fourier transform algorithm which reduces the number of computations needed for  $N$  points from  $2N^2$  to  $2N \lg N$ , where  $\lg$  is the base-2 logarithm. FFTs were first discussed by Cooley and Tukey (1965), although Gauss had actually described the critical factorization step as early as 1805 (Bergland 1969, Strang 1993).

### **Fast Fourier Transform -- from Wolfram MathWorld**

Sound power and intensity  $\hat{t} \in \mathbb{C}$  A source (e.g. bell) vibrates when a force (e.g. striking hammer) is applied to it.  $\hat{t} \in \mathbb{C}$  The force applied and the resulting movement characterize the work performed by

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example, there are 2 samples that have a value of 110, 8 samples that have a value of 131, 0 samples that have a value of 170, etc. We will represent the histogram by  $H_i$ , where  $i$  is an index that runs from 0 to  $M-1$ , and  $M$  is the number of possible values that each sample can take on. For instance,  $H_{50}$  is the number of samples that have a value of 50.

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