

# Fourier Transform--Inverse Function

The Fourier transform of the generalized function  $1/x$  is given by

$$\mathcal{F}_x \left( -PV \frac{1}{\pi x} \right) (k) = -\frac{1}{\pi} PV \int_{-\infty}^{\infty} \frac{e^{-2\pi i k x}}{x} dx \quad (1)$$

$$= PV \int_{-\infty}^{\infty} \frac{\cos(2\pi k x) - i \sin(2\pi k x)}{x} dx \quad (2)$$

$$= \begin{cases} -\frac{2i}{\pi} \int_0^{\infty} \frac{\sin(2\pi k x)}{x} dx & \text{for } k < 0 \\ \frac{2i}{\pi} \int_0^{\infty} \frac{\sin(2\pi k x)}{x} dx & \text{for } k > 0 \end{cases} \quad (3)$$

$$= \begin{cases} -i & \text{for } k < 0 \\ i & \text{for } k > 0, \end{cases} \quad (4)$$

where  $PV$  denotes the **Cauchy principal value**. Equation (4) can also be written as the single equation

# Fourier Transform Sneddon

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## **Fourier Transform Sneddon :**

**Fourier Transforms** Ian Naismith Sneddon,1995-01-01 Focusing on applications of Fourier transforms and related topics rather than theory this accessible treatment is suitable for students and researchers interested in boundary value problems of physics and engineering 1951 edition Fourier Transforms Ian Naismith Sneddon,2013-04 Fourier Transforms International Series In Pure And Applied Mathematics No 27 is a comprehensive book written by Ian Naismith Sneddon This book is a part of the International Series in Pure and Applied Mathematics The book covers the fundamental concepts of Fourier transforms and their applications in various fields of science and engineering The author has presented the material in a clear and concise manner making it accessible to readers with a basic understanding of mathematics The book starts with an introduction to Fourier series and then moves on to Fourier transforms The author explains the mathematical principles behind Fourier transforms and provides examples of their applications in signal processing image processing and quantum mechanics The book also covers the discrete Fourier transform and its applications in digital signal processing The author has included numerous examples and exercises throughout the book to help readers understand the concepts better The book is suitable for students and professionals in mathematics physics engineering and computer science who want to learn about Fourier transforms and their applications The book is also a valuable reference for researchers and practitioners in these fields Overall Fourier Transforms International Series In Pure And Applied Mathematics No 27 is an excellent resource for anyone interested in Fourier transforms and their applications This scarce antiquarian book is a facsimile reprint of the old original and may contain some imperfections such as library marks and notations Because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to their original work *Fourier Transforms. Ian N. Sneddon,...* Ian Naismith Sneddon,1951 *The Use of Integral Transforms* Ian Naismith Sneddon,1972 Fourier Transforms Ian Naismith Sneddon,1961 Fourier Transforms ,1951 **Integral Transforms and Their Applications** Lokenath Debnath,Dambaru Bhatta,2014-11-07 Integral Transforms and Their Applications Third Edition covers advanced mathematical methods for many applications in science and engineering The book is suitable as a textbook for senior undergraduate and first year graduate students and as a reference for professionals in mathematics engineering and applied sciences It presents a systematic **Fourier Series, By I.N. Sneddon** Ian Naismith Sneddon,1969 Handbook of Optical Holography H. J. Caulfield,2012-12-02 Handbook of Optical Holography is composed of 10 chapters that readers can turn to for specific questions regarding holography This book begins by elucidating the classification of holograms major types of holograms and variations The text then explains the image formation cardinal points and principal rays for holography equipment and procedures This book also tackles special problems and application areas of this technology This text will be valuable to people who want to apply holography whether to industry government health services education or research

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