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Fourier Series & The Fourier Transform Recall Our Formula For The Fourier Series Of  $F(t)$  : Now Transform The Sums To Integrals From  $-\infty$  to  $\infty$ , And Again Replace  $F$  With  $F(\omega)$ . Remembering The Fact That We Introduced A Factor Of  $1$  (and Including A Factor Of  $2$  That Just Crops Up), We Have:  $\frac{1}{2\pi} \int_{-\infty}^{\infty} F(\omega) e^{i\omega t} d\omega = \sum_{n=-\infty}^{\infty} c_n e^{in\omega t}$  ... Mar 17th, 2024 Fourier Series (revision)

And Fourier Transform Sampling ...Lecture 1 Slide 34 Even And Odd Functions (3)! Consider The Causal Exponential Function L1.5 PYKC Jan-7-10 E2.5 Signals & Linear Systems Lecture 1 Slide 35 Relating This Lecture To Other Courses! The First Part Of This Lecture On Signals Has Been Covered In This Lecture Was Covered In The 1st Year Communications Course (lectures 1-3) ! Jan 1th, 2024 Fourier Series And Fourier Transform 1 T-3 T-5 T-1 T 3 T 5 T 7 T 9 T-7 T-9 T 1 T-3 T-5 T-1 T 3 T 5 T 7 T 9 T-7 T-9 T Indexing In Frequency • A Given Fourier Coefficient,  $a_n$ , represents The Weight Corresponding To Frequency  $n\omega_0$  • It Is Often Convenient To Index In Frequency (Hz) Mar 28th, 2024.

Fourier Series And Fourier Transforms We Are Often Interested In Non-periodic Signals, For Instance An  $x(t)$  Of finite Duration, Or One That Decays To 0 As  $|t| \rightarrow \infty$ . The Signals Of Interest To Us Typically Satisfy  $\int_{-\infty}^{\infty} |x(t)| dt < \infty$  Fourier Series & Fourier Transforms  $\int_{-L}^{+L} e^{-in\pi x} F(x) dx$  Note: The Limits Of Integration Cover A Single Period Of The Function Which Is Not  $2L$  Rather Than  $2\pi$ . This Allows A Function Of Arbitrary Period To Be Analysed. Nonperiodic Functions OurierF Series Are Applica Jan 17th, 2024 Deriving Fourier Transform From Fourier Series FT Of Unit Step Function:  $F(\omega) = \int F(t) e^{-j\omega t} dt$  ... Any Function  $F$  Can Be Represented By Using Fourier Transform Only When The Function Satisfies Dirichlet's Conditions. I.e. The Function

F Has Finite Number Of Maxima And Minima. There Must Be Finite Number Of Discontinuities In The Signal F, in The Given Interval Of Time. Jan 15th, 2024

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ComputetheDFT Of An N-point Sequence Usingequation (1) Would Take $O(N^2)$ /multiplies And Adds. Apr 24th, 2024.

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