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fourier analysis wikipedia Jun 23 2022 the fourier transform of a periodic function $s(p, t)$ with period p becomes a dirac comb function modulated by a sequence of complex coefficients where p is the integral over any interval of length p the inverse transform known as fourier series is a representation of $s(p, t)$ in terms of a summation of a potentially infinite number of harmonically related sinusoids

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deconvolution wikipedia Jan 18 2022 in optics and imaging the term deconvolution is specifically used to refer to the process of reversing the optical distortion that takes place in an optical microscope electron microscope telescope or other imaging instrument thus creating clearer images it is usually done in the digital domain by a software algorithm as part of a suite of microscope image processing

superposition principle wikipedia Dec 05 2020 the importance of linear systems is that they are easier to analyze mathematically there is a large body of mathematical techniques frequency domain linear transform methods such as fourier and laplace transforms and linear operator theory that are applicable because physical systems are generally only approximately linear the superposition principle is only an