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Laplace transform - Wikipedia

The finite element method (FEM) (its practical application often known as finite element analysis (FEA)) is a numerical technique for finding approximate solutions of partial differential equations (PDE) as well as of integral equations. The solution approach is based either on eliminating the differential equation completely (steady state problems), or rendering the PDE into an approximating system of ordinary differential equations, which are then numerically integrated using standard ...

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for both Cartesian and radial space coordinates.

Integral transform - Wikipedia

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The input of this transform is a function f , and the output is another function Tf . An integral transform is a particular kind of mathematical operator.. There are numerous useful integral transforms. Each is specified by a choice of the function K of two variables, the kernel function, integral kernel or nucleus of the transform.. Some kernels have an associated inverse kernel $K^{-1}(u, t \dots$

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Integral transforms are one of many tools that are very useful for solving linear differential equations. An integral transform is a relation of the form: (7.5.1) $F(s) = \int_a^b K(s, t) f(t) dt$ where $K(s, t)$ is the kernel of the transformation

Partial differential equation - Wikipedia

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The inverse Laplace transform is given by the following complex integral, which is known by various names (the Bromwich integral, the Fourier-Mellin integral, and Mellin's inverse formula):

$$f(t) = \frac{1}{2\pi i} \lim_{T \rightarrow \infty} \int_{\gamma - iT}^{\gamma + iT} e^{st} F(s) ds$$

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