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$x+ct$ x^2ct . $?(s)ds$. (8) This is the solution formula for the initial-value problem, due to d'Alembert in 1746. Assuming u to have a continuous second derivative (written u_{xx}) and u to have a continuous u_t derivative (u_{xt}), we see from (8) that u itself has continuous second partial derivatives in x and t .

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Partial Differential Equations

Salsa: Partial differential equations in action, from modelling to theory. Springer (2008). A Tveito and R Winther: Introduction to partial differential equations, a computational approach. Springer TAM 29 (2005). W Strauss: Partial differential equations, an introduction. John Wiley (1992). JD Logan: Applied partial differential equations ...

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$R = \{ (x, t) : 0 < x < 1, t > 0 \}$ into diamond-shaped domains with sides parallel to characteristics and within each diamond the solution $u(x, t)$ is given by a different formula. On the data c_p and $1c$ we impose the compatibility condition. One Dimensional Wave Equation 85. $c_p(0) = S_9$ $(1) = 1c$ $(0) = 1c$ $(1) = 0$.

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$L_n = 2, 3, 4, \dots$ satisfy $L_n = L_{n-1} + L_{n-2} = A_1 + A_2^{-n}$, with $A_1, A_2 = (1 \pm \sqrt{5})/2$ from the Fibonacci matrix U^{-1} Compare $L_0 = 2$ with $F_0 = 0$. Minimal polynomial of A . The lowest degree polynomial with $m(A) = \text{zero matrix}$. This is $p(A) = \det(A - \lambda I)$ if no eigenvalues are repeated; always $m(A)$ divides $p(A)$.