

# Finding Equilibrium Solutions Of Differential Equations

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Finding Equilibrium Solutions Of Differential Equations

numerical technique for finding approximate solutions of partial differential equations (PDE) as well as of integral equations. The solution approach is based... 50 KB (6,671 words) - 13:23, 11 March 2024  
mathematics are solutions of linear differential equations (see Holonomic function). When physical phenomena are modeled with non-linear equations, they are... 43 KB (4,751 words) - 14:59, 22 November 2023

mathematics, specifically in differential equations, an equilibrium point is a constant solution to a differential equation. The point  $x \in \mathbb{R}^n$ ... 3 KB (371 words) - 23:52, 30 November 2023  
partial differential equations. Laplace's equation is also a special case of the Helmholtz equation. The general theory of solutions to Laplace's equation is... 32 KB (4,943 words) - 08:35, 7 November 2023  
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system of ordinary differential equations first studied by mathematician and meteorologist Edward Lorenz. It is notable for having chaotic solutions for... 36 KB (4,256 words) - 14:15, 5 March 2024  
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ordinary differential equations to solve, since there are three components in this vector equation. The solution is the position vector  $r$  of the particle... 89 KB (12,615 words) - 11:45, 10 March 2024  
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with a set of algebraic equations for steady state problems, a set of ordinary differential equations for transient problems. These equation sets are element... 53 KB (7,000 words) - 07:52, 17 February 2024

difference equations or differential equations called the 'Euler equations'. Standard techniques for the solution of difference or differential equations can... 27 KB (3,992 words) - 19:39, 29 December 2023

many differential equations describing physical phenomena. Poisson's equation describes electric and gravitational potentials; the diffusion equation describes... 27 KB (4,069 words) - 10:52, 11 March 2024

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chaotic solutions, whereas the logistic ordinary differential equation (ODE) exhibits regular solutions, commonly referred to as the S-shaped sigmoid function... 36 KB (4,746 words) - 05:09, 19 March 2024

their ending time, they are not unique solutions of Lipschitz differential equations. As example, the equation:  $y^2 = \operatorname{sgn}(y) |y|$ ,  $y(0) = 1.52$  KB (7,059 words) - 00:53, 10 March 2024

area of mathematics used to describe the behavior of complex dynamical systems, usually by employing differential equations or difference equations. When... 24 KB (2,905 words) - 20:58, 18 November 2023

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