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The Mathematics Of Diffusion

The mathematical theory of diffusion is founded on that of heat conduction and correspondingly the early part of this book has developed from 'Con-duction of heat in solids' by Carslaw and Jaeger. These authors present many solutions of the equation of heat conduction and some of them can be applied to diffusion problems for which the diffusion coefficient is constant. I have

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The Mathematics Of Diffusion. Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

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The mathematics of diffusion / Wei-Ming Ni. p. cm. -- (CBMS-NSF regional conference series in applied mathematics) Includes bibliographical references and index.

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The Mathematics of Diffusion. Diffusion has been used extensively in many scientific disciplines to model a wide variety of phenomena. The Mathematics of Diffusion focuses on the qualitative properties of solutions to nonlinear elliptic and parabolic equations and systems in connection with domain geometry, various boundary conditions, the mechanism of different diffusion rates, and the interaction between diffusion and spatial heterogeneity.

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The Mathematics of Diffusion ()

The Mathematical Theory of Diffusion and Reaction in Permeable Catalysts: Vol. 2: Questions of Uniqueness, Stability, and Transient Behavior (Oxford Studies in Physics) (v. 2) Hardcover – May 22, 1975

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The ordinary differential equations are then analysed to obtain semi-analytical results for the reaction-diffusion cell. Steady-state concentration profiles and bifurcation diagrams are obtained both explicitly, for the one-term method, and as the solution to a pair of transcendental equations, for the two-term method.

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(2016) Boundedness in a multi-dimensional chemotaxis-haptotaxis model with nonlinear diffusion. Applied Mathematics Letters 59, 122-126. (2016) Analysis of a chemotaxis system modeling ant foraging. Mathematical Models and Methods in Applied Sciences 26:09, 1785-1824.

SIAM Journal on Mathematical Analysis

J. Crank, The Mathematics of Diffusion, Oxford University Press, London and New York (1957). Google Scholar

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The Mathematics of Diffusion : Wei-Ming Ni : 9781611971965

Differential equation of diffusion The fundamental differential equation of diffusion in an isotropic medium is derived from eqn A.1) as follows. Consider an element of volume in the form of a rectangular parallelepiped whose sides are parallel to the axes of coordinates and are of lengths 2 dx, 2 dy, 2 dz.

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We describe a new, microscopic model for diffusion that captures diffusion induced fluctuations at scales where the concept of concentration gives way to discrete particles. We show that in the limit as the number of particles $N \rightarrow \infty$, our model is equivalent to the classical stochastic diffusion equation (SDE).

Multinomial diffusion equation — University of Illinois at ...

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