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It addresses researchers and post-graduate students working at the interplay between mathematics and other fields of science and technology and is a comprehensive introduction to the theory of nonlinear partial differential equations and its main principles also presents their real-life applications in various contexts: mathematical physics, chemistry, mathematical biology, and population genetics.

Nonlinear PDEs - Mathematical Models in Biology, Chemistry ...

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The chapter on reaction-diffusion models has challenging mathematical problems coming from various models, with the nonlinearities being derived from chemical reaction formulas and pattern-formation of spatial tissue structures in morphogenesis. The appendix includes technical results and is extremely useful.

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In 1972 Gierer andMeinhardt proposed a mathematical model for pattern for- mation of spatial tissue structures in morphogenesis, a biological phenomenon dis- covered by Trembley in 1744.

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Nonlinear PDEs | SpringerLink

For example, PDEs are used in mathematical models of weather and climate, in medical imaging technologies, in the design of new composite materials, in models of elementary particle interaction and of the formation of galaxies, in models of cancerous tumor growth or of blood flow in the heart, in simulating semiconductor devices, in models of bacterial colonies, in models of financial markets and asset price bubbles, in describing the flocking behavior of birds and fish.

PDE & Dynamical Systems | Department of Mathematics

1 Introduction The mathematical models for many problems around us are in the form of partial dier- ential equations (PDEs) in high dimensions. Notable examples include: The Hamilton-Jacobi-Bellman (HJB) equation in control theory @u @t + H(x;r

Algorithms for Solving High Dimensional PDEs: From ...

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Nonlinear Pdes: Mathematical Models in Biology, Chemistry ...

The Centre is a vibrant and stimulating research environment, providing leadership in the area of nonlinear partial differential equations (PDE) within the UK. PDEs are ubiquitous in almost all applications of mathematics, where they provide a natural mathematical description of many phenomena.

OXPDE - Oxford Centre for Nonlinear Partial Differential ...

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Nonlinear PDEs: Mathematical Models in Biology, Chemistry ...

This motivates the mathematical study of the details of singularity formation in nonlinear PDEs. Our group focuses on the investigation of blowup dynamics in nonlinear wave equations and heat flows in the so-called energy supercritical case. We mainly use tools from functional analysis, operator theory and spectral analysis as well as ODE methods.

Nachwuchsgruppe Singularity formation in nonlinear PDEs

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nonlinear dynamics of PDEs, with a focus on problems over unbounded domains and modulation equations. The presentation is example-oriented, and new mathematical tools are developed step by step, giving insight into some important classes of nonlinear PDEs and

Nonlinear PDEs: A Dynamical Systems Approach

Abstract. The solution of nonlinear mathematical models has much importance and in soliton theory its worth has increased. In the present article, we have investigated the Caudrey-Dodd-Gibbon and Pochhammer-Chree equations, to discuss the physics of these equations and to attain soliton solutions.

Solitary Wave Solution of Nonlinear PDEs Arising in ...

General Information Mathematical models of phenomena in the physical sciences or processes in the engineering and biological sciences invariably take the form of nonlinear dynamical systems and partial differential equations (PDEs).