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But what is a partial

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differential equation?

| DE2

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Introduction to

Nonlinear PDEs I.

Nonlinear Diffusion

Equation How to tell

Linear from Non-

linear ODE/PDEs

(including Semi-

linear, Quasi-linear,

Fully Nonlinear) Why

we need Differential

Equations? ODEs,

PDEs POD for Partial

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Differential Equations

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Perturbation  
methods for  
nonlinear PDEs  
(Lecture - 01) by  
Vishal Vasan

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S3 M.Sc; PDE; Lecture  
17-First Order

Nonlinear PDE-Part 4  
MIT Numerical  
Methods for PDE

Lecture 7:

Linearization, error

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~~equation for~~  
~~nonlinear PDEs~~ Data  
Driven Discovery of  
Biological Systems  
and PDEs Nonlinear  
Dynamics: Field Trip,  
Solving Partial  
Differential Equations  
(with Christine  
Hrenya) Deriving 1st  
Order Perturbation  
Theory (Energy and  
Wavefunction  
Corrections) ~~What is a~~



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differential equation?

Applications and

examples. Non Linear

PDE of First Order

Non-linear Partial

Differential Equations

Standard Form 1

MAPLE Tutorial 2:

He's Homotopy

Perturbation Method

(HPM) MAPLE code

for 1D nonlinear ode

Lecture 1: Basics of

Mathematical

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Modeling Lec 5:  
System of first-order  
PDEs What are  
different ways to  
represent ODEs and  
PDEs? (General,  
normal, operator  
forms)

1.1.3-Introduction:  
Mathematical  
Modeling  
Perturbation Method  
How to apply  
Perturbation Lec 1

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Jean-Michel Coron:

Linear

transformations for  
the stabilization of

nonlinear PDE Non

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Lecture 1

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Differential Equations

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Perturbation

methods for

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Vishal Vasan Non  
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Differential Equations  
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PDE; Lecture  
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physics, chemistry,  
mathematical  
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The chapter on

reaction-diffusion  
models has

challenging

mathematical

problems coming  
from various models,  
with the

nonlinearities being

derived from



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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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*Page 17/42*

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proposed a  
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for pattern for-  
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morphogenesis, a  
biological  
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covered by Trembley  
in 1744.

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partial differential  
equations and its  
main principles also  
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mathematical  
biology, and  
population genetics.

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For example, PDEs  
are used in

mathematical models  
of weather and  
climate, in medical  
imaging

technologies, in the  
design of new



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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

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markets and asset price bubbles, in describing the flocking behavior of birds and fish. And

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Department of Mathematics  
1 Introduction The mathematical models for many problems around us are in the

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form of partial differential equations (PDEs) in high dimensions. Notable examples include: The Hamilton-Jacobi-Bellman (HJB) equation in control theory  $u_t + H(x; r, u, \nabla u) = 0$ . Algorithms for Solving High Dimensional PDEs: From ...

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they provide a natural mathematical description of many phenomena.

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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

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analysis, operator theory and spectral analysis as well as ODE methods.

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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

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Dynamical Systems

Approach And

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

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Pochhammer-Chree  
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the physics of these  
equations and to  
attain soliton  
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Solution of Nonlinear  
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