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and imparts a  
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of the most  
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techniques of  
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differential  
equations away  
from the analytical  
computation of  
solutions and  
toward both their  
numerical analysis  
and the qualitative  
theory. This book  
provides an  
introduction to the  
basic properties of  
partial dif-ferential  
equations (PDEs)

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and to the techniques that have proved useful in analyzing them.

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the basic properties of PDEs and the ideas and techniques that have proven useful in analyzing them. It provides the student a broad perspective on the subject, illustrates the incredibly rich variety of phenomena encompassed by it,



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partial differential equation (PDE) describes a relation between an unknown function and its partial derivatives. PDEs appear frequently in all areas of physics and engineering. Moreover, in recent years we have seen a dramatic increase in the

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is a clear, rigorous

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### First-order Partial

#### Differential

#### Equations 1.1

Introduction Let  $u$

$= u(x_1, \dots, x_n)$  be a

function of  $n$

independent

variables  $x_1, \dots, x_n$ .

A Partial

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Equation (PDE for

short) is an

equation that

contains the

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independent  
variables  $x_1, \dots, x_n$ ,  
the dependent  
variable or the  
unknown function  $u$   
and its partial  
derivatives up to  
some order.

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Sharif

This course is an

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introduction to partial differential equations (PDEs). PDEs originated as the mathematical description of various physical systems, e.g., heat diffusion, vibrations of a string or membrane, fluid flow, the motion of an electron, etc.

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### ~~110 Introduction to Partial Differential Equations An Introduction Solutions~~

In mathematics, a partial differential equation (PDE) is an equation which imposes relations between the various partial derivatives of a multivariable function. The function is often thought of as an

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"unknown" to be solved for, similarly to how  $x$  is thought of as an unknown number, to be solved for, in an algebraic equation like  $x^2 - 3x + 2 = 0$ . However, it is usually impossible to write down explicit formulas for solutions of partial differential

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equations.

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equation~~

Wikipedia

Errata in "Partial  
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Equations, an  
Introduction",  
FIRST Edition, by  
Walter A. Strauss  
(John Wiley and  
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The following errata are for the 6th (or later) printing of the First Edition. (To identify which printing your copy is, look at the last number on the page before the preface.)

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Equations by John

W. Cain and Angela

M. Reynolds

Department of

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Introduction This course is intended to give an introduction to some important variational methods for certain problems in partial differential equations (PDE) and applications. It is suitable for graduate students with some



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knowledge of partial  
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provide a solid  
basis for the  
existence theory of  
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applied problems.

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offers students in  
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A partial differential equation is an equation that involves  $x$ ,  $u$ , and partial derivatives of  $u$ . Quite often,  $x$  represents only spatial variables. However, many equations are

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evolutionary,  
meaning that  $u = u$   
(  $x$  ,  $t$  ) depends  
also on time  $t$  and  
the PDE has time  
derivatives.

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