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February 21, 2016. 1.  
Write down an explicit  
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problem  $u_t + bDu + cu = 0$  in  $R^n(0;1)$   $u = g$  on  $R_n$   $t = 0$  ) Solution: We use the method of

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introduce and motivate partial differential equations (PDE). The section also places the scope of studies in APM346 within the vast universe of mathematics.

1.1.1 What is a PDE? A partial differential equation (PDE) is an equation involving partial derivatives. This is not so informative so let 's break it down a bit.

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equation ) 6.  $u_{,xx} + u_{yy} = 0$  ( Laplace equation ) 7.  
 $u_{,xxx} + 2u_{xxy} +$

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(PDE) is an equation  
which imposes relations  
between the various  
partial derivatives of a  
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cover roughly Chapter 2 and Chapters 5 – 7 in Evans. There is no claim to any originality in the notes, but I hope — for some readers at least — they will provide a useful supplement.

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Lawrence Craig Evans

(born November 1,  
1949) is an American

mathematician and

Professor of Mathematics

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California, Berkeley. He received his Ph.D. with thesis advisor Michael G. Crandall at the University of California, Los Angeles in 1975. His research is in the field of nonlinear partial differential equations, primarily elliptic equations. In 2004, he shared the Leroy P. Steele Prize for Seminal Contribution to Research

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varieties. And different  
varieties of DEs can be  
solved using different  
methods. You can  
classify DEs as ordinary  
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