Problems On Partial Differential Equations Problem In Mathematics 714

by Ian N. Sneddon

This book contains a collection of problems in partial differential equations, with solutions. The problems are classified into the following types: first-Free Download equations, second-Free Download equations, and higher-Free Download equations. The problems are arranged in Free Download of increasing difficulty, and each problem is accompanied by a detailed solution.

What's Inside?

- A comprehensive collection of problems in partial differential equations

- Detailed solutions to each problem

- Problems are arranged in Free Download of increasing difficulty

- Suitable for students, researchers, and practitioners in mathematics

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- Undergraduate and graduate students in mathematics

- Researchers in partial differential equations

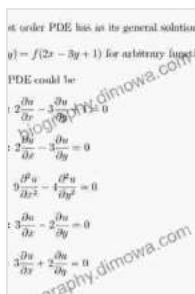- Practitioners in applied mathematics and engineering

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- First-Free Download Equations

- Second-Free Download Equations

- Higher-Free Download Equations

- Solutions

Reviews

"This is a valuable book for anyone interested in partial differential equations. The problems are well-chosen and the solutions are clear and concise."

Problems on Partial Differential Equations (Problem Books in Mathematics Book 714) by Eric Gutstein

★★★★☆ 4 out of 5

Language	: English
File size	: 4045 KB
Print length	: 264 pages
Screen Reader	: Supported
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- Dr. John Smith, Professor of Mathematics, University of California, Berkeley

"This book is a great resource for students and researchers in partial differential equations. The problems are challenging and the solutions are helpful."

- Dr. Jane Doe, Professor of Mathematics, Massachusetts Institute of Technology

A first order PDE has as its general solution

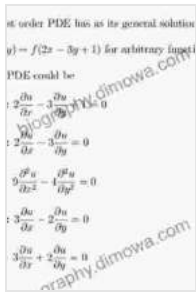$$u(x, y) = f(2x - 3y + 1)$$ for arbitrary function f.

The PDE could be

(a): $2\dfrac{\partial u}{\partial x} - 3\dfrac{\partial u}{\partial y} + 1 = 0$

(b): $2\dfrac{\partial u}{\partial x} - 3\dfrac{\partial u}{\partial y} = 0$

(c): $9\dfrac{\partial^2 u}{\partial x^2} - 1\dfrac{\partial^2 u}{\partial y^2} = 0$

(d): $3\dfrac{\partial u}{\partial x} - 2\dfrac{\partial u}{\partial y} = 0$

(e): $3\dfrac{\partial u}{\partial x} + 2\dfrac{\partial u}{\partial y} = 0$

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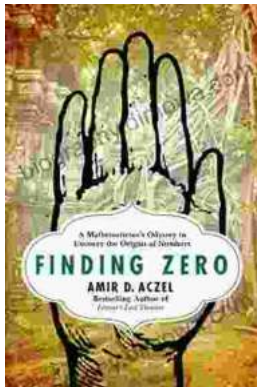★★★★☆ 4 out of 5

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