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Heat Conduction in
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43 3.7 The Two
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48

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20ABCE) is also necessary. Everything in Appendices A1-A4 of the textbook, W. A. Strauss, *Partial Differential Equations: An Introduction*, 2nd ed. (New York ...

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Amer. Math. Soc.,

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print since 2008. It is strongly recommended that students use it in conjunction with the solutions manual.

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Since $\frac{\partial u}{\partial t} = 0$ and $\frac{\partial u}{\partial x^2} = 0$ we obtain the

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coupled system of partial differential equations

$$\frac{\partial \psi}{\partial t} + \frac{1}{2} \nabla^2 \psi + \frac{1}{2} \nabla^2 \phi = 0$$
$$\nabla^2 \phi = -2m\psi$$

This is the Madelung representation of the Schrödinger equation. The term $\frac{1}{2} \nabla^2 \psi$ of the right-hand side of the last ...

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Walter A. Strauss,
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a large sector of pure mathematical research, in which the usual questions are, broadly speaking, on the identification of general qualitative features of solutions of various partial differential equations.
[citation needed]

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Errata in "Partial
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Edition, by Walter A.
Strauss (John Wiley
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