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Mark Gockenbach is Professor and Chair of the Department of Mathematical Sciences at Michigan Technological University. He is the author of Partial Differential Equations: Analytical and Numerical Methods (SIAM, 2002) and Understanding and Implementing the Finite Element Method (SIAM, 2006).

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to a large extent on partial differential equations. Examples are the vibrations of solids, the flow of fluids, the diffusion of chemicals, the spread of heat, the structure of molecules, the interactions of photons and electrons, and the radiation of electromagnetic waves. Partial differential equations also play a

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Mark S. Gockenbach is the author of 'Partial Differential Equations: Analytical and Numerical Methods, Second Edition', published 2010 under ISBN 9780898719352 and ISBN 0898719356.

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Hence $y = -\cos x + C$ or $y + \cos x = C$. Thus the solution of the partial differential equation is $u(x, y) = f(y + \cos x)$. To verify the solution, we use the chain rule and get $u_x = -\sin x f'(y + \cos x)$ and $u_y = f'(y + \cos x)$.

Instructor's Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS

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