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Partial Differential Equations This page intentionally left blank Partial Differential Equations Analytical and Numerical Methods Mark S. Gockenbach Michigan Technological University Houghton, Michigan

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It is much more complicated in the case of partial differential equations caused by the

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This book is written for undergraduate courses usually titled Introduction to Partial Differential Equations or Fourier Series and Boundary Value Problems. About the Authors Mark S. Gockenbach is Professor and Chair of the Department of Mathematical Sciences at Michigan Technological University.

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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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nonlinear. It is actually linear partial differential equations for which the technique of linear algebra prove to be so effective. This book is concerned primarily with linear partial differential equations yet it is the nonlinear partial differential equations that provide the most intriguing questions for research. Nonlinear

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### **Paul DuChateau - Colorado State University**

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