



# Ordinary and Partial Differential Equations

By Victor Henner, Tatyana Belozeroва, Mikhail Khenner

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Requiring no user programming, the accompanying computer software allows students to fully investigate problems, thus enabling a deeper study into the role of boundary and initial conditions, the dependence of the solution on the parameters, the accuracy of the solution, the speed of a series convergence, and related questions. The ODE module compares students' analytical solutions to the results of computations while the PDE module demonstrates the sequence of all necessary analytical solution steps.

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## **Ordinary and Partial Differential Equations By Victor Henner, Tatyana Belozerova, Mikhail Khenner Bibliography**

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### **Review**

"**Ordinary and Partial Differential Equations** provides college-level readers with a comprehensive textbook covering both ordinary differential equations and partial differential equations, offering a complete course on both under one cover, which makes this a unique contribution to the field. Examples and exercises accompany software supporting these and a text that covers all the basics any undergraduate or beginning graduate course will cover in differential equations. This doesn't require programmer knowledge nor any special computer software outside the disc provided here, and provides in-depth detail for students in the physical, engineering, biological, and math sciences using examples throughout. Very highly recommended for any college collection supporting these disciplines."

*?Midwest Book Review*

"Henner, Belozeroва, and Khenner cover most of the fundamental topics found in introductory ODEs and PDEs courses, nicely balancing scope without sacrificing content. ... The authors have managed to provide the right amount of details and have outlined the text in such a way that all material needed to solve the PDEs discussed in Part II can be referenced within the text. This, in my opinion, is the main strength of the book. ... this single book could be used successfully for a series of differential equations courses that covered both ODEs and PDEs if the same students took the courses. ... This text finds a nice balance between general topics of ODEs and second-order PDEs."

*?Joe Latulippe, MAA Reviews, June 2013*

## **Users Review**

### **From reader reviews:**

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As people who live in the particular modest era should be upgrade about what going on or data even knowledge to make these keep up with the era and that is always change and make progress. Some of you maybe can update themselves by reading through books. It is a good choice for you personally but the problems coming to you is you don't know what kind you should start with. This Ordinary and Partial Differential Equations is our recommendation to cause you to keep up with the world. Why, because this book serves what you want and need in this era.

#### **Travis Hargrove:**

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