



Ordinary Differential Equations (Universitext)

By Vladimir I. Arnold



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Few books on Ordinary Differential Equations (ODEs) have the elegant geometric insight of this one, which puts emphasis on the qualitative and geometric properties of ODEs and their solutions, rather than on routine presentation of algorithms.

From the reviews:

"Professor Arnold has expanded his classic book to include new material on exponential growth, predator-prey, the pendulum, impulse response, symmetry groups and group actions, perturbation and bifurcation." --SIAM REVIEW



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Review

From the reviews:

"Professor Arnold has expanded his classic book to include new material on exponential growth, predator-prey, the pendulum, impulse response, symmetry groups and group actions, perturbation and bifurcation The new edition is highly recommended as a general reference for the essential theory of ordinary differential equations and as a textbook for an introductory course for serious undergraduate or graduate students. ... In the US system, it is an excellent text for an introductory graduate course." (Carmen Chicone, SIAM Review, Vol. 49 (2), 2007)

"Vladimir Arnold's is a master, not just of the technical realm of differential equations but of pedagogy and exposition as well. ... The writing throughout is crisp and clear. ... Arnold's says that the book is based on a year-long sequence of lectures for second-year mathematics majors in Moscow. In the U.S., this material is probably most appropriate for advanced undergraduates or first-year graduate students." (William J. Satzer, MathDL, August, 2007)

Language Notes

Text: English (translation)

Original Language: Russian

From the Back Cover

From the reviews: "... This book is an excellent text for a course whose goal is a mathematical treatment of differential equations and the related physical systems." L'Enseignement Mathématique "... Arnold's book is unique as a sophisticated but accessible introduction to the modern theory, and we should be grateful that it exists in a convenient language." Mathematical Association of America Monthly

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