

# Ordinary Differential Equations

4TH EDITION

Garrett Birkhoff Gian-Carlo Rota

# Ordinary Differential Equations 4th Edition Solution Manual

**Dominic Jordan, Peter Smith**

## **Ordinary Differential Equations 4th Edition Solution Manual:**

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**Nonlinear Ordinary Differential Equations: Problems and Solutions** Dominic Jordan, Peter Smith, 2007-08-23 An ideal companion to the new 4th Edition of Nonlinear Ordinary Differential Equations by Jordan and Smith OUP 2007 this text contains over 500 problems and fully worked solutions in nonlinear differential equations With 272 figures and diagrams subjects covered include phase diagrams in the plane classification of equilibrium points geometry of the phase plane perturbation methods forced oscillations stability Mathieu's equation Liapunov methods bifurcations and manifolds homoclinic bifurcation and Melnikov's method The problems are of variable difficulty some are routine questions others are longer and expand on concepts discussed in Nonlinear Ordinary Differential Equations 4th Edition and in most cases can be adapted for coursework or self study Both texts cover a wide variety of applications whilst keeping mathematical prerequisites to a minimum making these an ideal resource for students and lecturers in engineering mathematics and the sciences

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