



Stability, Instability and Chaos: An Introduction to the Theory of Nonlinear Differential Equations



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By providing an introduction to nonlinear differential equations, Dr Glendinning aims to equip the student with the mathematical know-how needed to appreciate stability theory and bifurcations. His approach is readable and covers material both old and new to undergraduate courses. Included are treatments of the Poincaré-Bendixson theorem, the Hopf bifurcation and chaotic systems. The unique treatment that is found in this book will prove to be an essential guide to stability and chaos. *Revue de presse*

'I have rarely read an introductory mathematical book with such pleasure ... Those new graduate students who will use any branch of nonlinear systems theory in their studies, and who have not had the advantage of attending Dr Glendinning's final year undergraduate lectures, should sacrifice their bread and beer for the means to rush out and buy this book. More eminent and senior scientists would equally find it worth the sacrifice of a bottle or two of their favorite claret ... The book is full of excellent and appropriate examples and virtually empty of errors.' J. Brindley, *Bulletin of the Institute of Mathematics*

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