



# Dynamical Systems with Applications using MapleTM

*Stephen Lynch*

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# Dynamical Systems with Applications using Maple™

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**Dynamical Systems with Applications using Maple™** Stephen Lynch

Excellent reviews of the first edition (Mathematical Reviews, SIAM, Reviews, UK Nonlinear News, The Maple Reporter)

New edition has been thoroughly updated and expanded to include more applications, examples, and exercises, all with solutions

Two new chapters on neural networks and simulation have also been added

Wide variety of topics covered with applications to many fields, including mechanical systems, chemical kinetics, economics, population dynamics, nonlinear optics, and materials science

Accessible to a broad, interdisciplinary audience of readers with a general mathematical background, including senior undergraduates, graduate students, and working scientists in various branches of applied mathematics, the natural sciences, and engineering

A hands-on approach is used with Maple as a pedagogical tool throughout; Maple worksheet files are listed at the end of each chapter, and along with commands, programs, and output may be viewed in color at the author's website with additional applications and further links of interest at Maplesoft's Application Center

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