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~~Nonlinear Dynamics and Chaos | J. M. T. Thompson, H. B...~~

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Basic Concepts in Nonlinear Dynamics and Chaos These pages are taken from a Workshop presented at the annual meeting of the Society for Chaos Theory in Psychology and the Life Sciences June 28, 1996 at Berkeley, California.

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Applied Nonlinear Dynamics – Nayfeh and Balachandran . Additional Resources: Nonlinear Dynamics and Chaos – Strogatz MAE 5790 – Cornell MAE on YouTube (Strogatz class) Wolfram Demonstrations Project. Computer and Software Requirements. Please review minimum computer specifications recommended by NC State University and Engineering Online.

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This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase ...

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