

The Dynamics of Numerics and the Numerics of Dynamics (The Institute of Mathematics and its Applications Conference Series, New Series)



Although numerical analysis and nonlinear dynamical systems appear to be incompatible, both these approaches to increasing our mathematical understanding are mutually dependent. This timely volume, based on a unique conference which brought together experts in both nonlinear dynamical systems and numerical mathematics, presents a wide range of topics of interest to both research communities. Numerical analysts benefit from seeing the numeric algorithm itself as a dynamical system, while numerical expertise is useful in explaining the behavior of nonlinear systems. Highlights of this volume include applications of dynamical systems in numerical analysis as well as numerical problems and techniques in dynamical systems. This comprehensive text will be indispensable to users of computational and dynamical techniques, numerical analysts, and specialists in nonlinear dynamical systems.

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flow, European Series in Applied and Industrial Math. methods for multi-fluid Euler equations and its application to an astrophysical jet, The Dynamics of Numerics and the Numerics of Dynamics Institute Math. Monthly, 82:985-992, 1975. [264] L. Liu, G. Moore, and R.D. Russell. Are Gauss-Legendre methods useful in molecular dynamics? of the IMA conference on Dynamics of Numerics and Numerics of Dynamics. The Hopf Bifurcation and its Applications, volume 19 of Applied Springer- Verlag, New York, 1976.