

Contents

How Did You Get into Chaos? 1

Singular Perturbations of Complex Analytic Dynamical Systems 13
Robert L. Devaney

Heteroclinic Switching in Coupled Oscillator Networks: Dynamics on Odd Graphs 31
Peter Ashwin, Gábor Orosz, and Jon Borresen

Dynamics of Finite-Size Particles in Chaotic Fluid Flows 51
Julyan H.E. Cartwright, Ulrike Feudel, György Károlyi, Alessandro de Moura, Oreste Piro, and Tamás Tél

Langevin Equation for Slow Degrees of Freedom of Hamiltonian Systems 89
R.S. MacKay

Stable Chaos 103
Antonio Politi and Alessandro Torcini

Superpersistent Chaotic Transients 131
Ying-Cheng Lai

Synchronization in Climate Dynamics and Other Extended Systems 153
Peter L. Read and Alfonso A. Castrejón-Pita

Stochastic Synchronization 177
Ram Ramaswamy, R.K. Brojen Singh, Changsong Zhou, and Jürgen Kurths

Experimental Huygens Synchronization of Oscillators 195
Alexander Pogromsky, David Rijlaarsdam, and Henk Nijmeijer

**Controlling Chaos: The OGY Method, Its Use in Mechanics, and an
Alternative Unified Framework for Control of Non-regular Dynamics . . . 211**
G. Rega, S. Lenci, and J.M.T. Thompson

Detection of Patterns Within Randomness 271
Ruedi Stoop and Markus Christen

Index 291