# Discontinuity, Nonlinearity, and Complexity

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- Nonlinear discrete systems and symbolic dynamics
- · Fractional dynamical systems and control
- · Stochastic dynamical systems and randomness
- Complexity, self-similarity and synchronization
- Complex nonlinear phenomena in physical systems
- Stability, bifurcation and chaos in complex systems
- Turbulence and other complex phenomena in hydrodynamics
- · Nonlinear waves and solitons
- · Dynamical networks
- Combinatorial aspects of dynamical systems
- · Biological dynamics and biophysics
- · Pattern formation, social science and complexization

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Continued from inside front cover

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