



Mathematical Methods and Modeling  
Albert C. J. Luo and Valentin Afraimovich

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# Discrete and Switching Dynamical Systems



# **Mathematical Methods and Modeling**

# Mathematical Methods and Modeling

*Mathematical Methods and Modeling* focuses on mathematical methods, theories, modeling and computational techniques for complex phenomena in science and engineering.

Topics of interest in *Mathematical Methods and Modeling* include but not limited to

- Biological dynamics and biophysics
- Dynamical system networks
- Stock markets and economical dynamics
- Plasma physics and fluid dynamics
- Nonlinear mechanics and astrophysics
- Condensed matter physics
- Chaotic dynamics and fractal
- Fractional calculus

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With 121 figures



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