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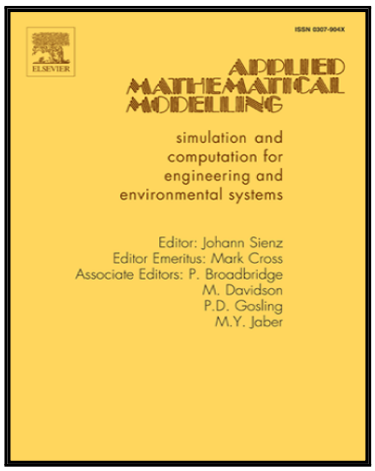

Modeling phase diagrams as stochastic processes with application in vehicular traffic flow

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Highlights

- Proposed a methodology to model phase diagrams as stochastic processes.
- Formulated a generic procedure to determine homogeneous distributions with parameters derived from empirical data.
- Applied the methodology to address fundamental diagram of vehicular traffic flow.
- Conducted a verification on the resultant stochastic fundamental diagram using empirical data.
- Discussed the significance of the research and its applications beyond vehicular traffic flow.

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