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Effects of the design of waiting areas on the dynamic behavior of queues at signalized intersections

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Highlights

1. Develop a stochastic queueing model to measure the dynamic behavior of queues.
2. Formulate the statistical distributions of queue length along with the time.
3. Evaluate the formation of maximum queue length during a cycle.
4. Clarify the effects of waiting areas on the queue formation and dissipation.

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