



Feedback Control Theory for Dynamic Traffic Assignment (Advances in Industrial Control)

Pushkin Kachroo, Kaan Ozbay

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Traditionally, traffic assignment and traffic control in general have mostly been performed using optimisation techniques which do not lend themselves to real-time control. This volume presents feedback control techniques for performing traffic assignment in real-time, where traffic diversion control variables are instantaneous functions of sensed traffic variables. The authors outline the whole theory behind Intelligent Transportation Systems (ITS) which allows traffic variables to be sensed in real time and microprocessors to use the sensed traffic variable input to perform the traffic actuation tasks. They show how to design feedback controllers to perform dynamic traffic routing and assignment, and present the theory of feedback control as applied to this problem, with many new approaches for solving it. Not only is the theory presented but a wide range of information on applications in terms of simulations and deployment.

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