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Active Braking Control Systems Design for Vehicles (Advances in Industrial Control)

Sergio M. Savaresi, Mara Tanelli

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Active Braking Control Design for Road Vehicles focuses on two main brake system technologies: hydraulically-activated brakes with on–off dynamics and electromechanical brakes, tailored to brake-by-wire control. The physical differences of such actuators enjoin the use of different control schemes so as to be able fully to exploit their characteristics. The authors show how these different control approaches are complementary, each having specific peculiarities in terms of either performance or of the structural properties of the closed-loop system. They also consider other problems related to the design of braking control systems, namely: • longitudinal vehicle speed estimation and its relationship with braking control system design; • tire–road friction estimation; • direct estimation of tire–road contact forces via in-tire sensors, providing a treatment of active vehicle braking control from a wider perspective linked to both advanced academic research and industrial reality.

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