



# Inter- and Intra-Vehicle Communications

*Gilbert Held*

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The PC revolution, the advent of PDAs, and growth in the use of wireless LANs have changed the way we live our lives. Next on the horizon is the application of new technologies that will change the way we drive our cars. De rigeur for many drivers, electronic passes and GPS systems represent the tip of the iceberg in terms of emerging applications of new technology. Not far off are networks consisting of vehicles, lane markers, exit ramps, and other highway structures that work together to create safer highways.

Inter- and Intra-Vehicle Communications provides details on the current state-of-the-art in wireless communication technology within and between vehicles. The author describes the operation of vehicle systems and sensors and provides a tutorial covering the fundamental concepts associated with communications and transmission technologies that can be used for inter- and intra vehicle operations. He explains the inexpensive local interconnect network (LIN) and the more costly controller area network (CAN) and how LIN-CAN networks can be integrated.

The book includes detailed information on wired and wireless communications within a vehicle and how such communications provide the capability for vehicle communications and the intelligent roadway. It also examines protocols used to transfer data, and analyzes the role of sensors used inside and outside a vehicle as a mechanism for developing smart automobiles. The author examines the issues from every angle, elucidating problems surrounding security, radio frequency interference, and operation under severe conditions and offers actual and potential solutions. These features provide an in-depth exploration of the possibilities and how to bring them into reality.

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