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## Depiction of Priority Light-Vehicle Pre-Crash Scenarios for Safety Applications Based on Vehicle-to-Vehicle Communications

By John Brewer

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 80 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. A template of pre-crash scenarios is presented to depict national crash statistics and kinematic information of time-to-collision for the design of appropriate crash countermeasures based on vehicle-to-vehicle (V2V) communications. This template serves the development of functional requirements, performance specifications, test procedures, and benefits estimation for potential light-vehicle V2V safety applications. A set of ten pre-crash scenarios is suggested as a priority list to be addressed by V2V technology for light vehicles (i. e. , passenger cars, vans and minivans, sport utility vehicles, and light pickup trucks with gross vehicle weight ratings of 10, 000 pounds or less). This report presents the time-to-collision equations as well as the crash statistics for each of the ten priority scenarios based on data available in the General Estimates System, National Motor Vehicle Crash Causation Survey, and Event Data Recorder databases. This item ships from La Vergne, TN. Paperback.



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