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Passenger Rail Two-Car Impact Test ? Volume II: Summary of Occupant Protection Program (Paperback)

By U S Department of Transportation

Createspace, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Two full-scale impact tests of rail cars fitted with seat/occupant experiments were conducted at the Federal Railroad Administration s Transportation Technology Center located in Pueblo, Colorado. The first test was conducted on November 16, 1999, with a single rail car that was impacted against a rigid barrier at 35.1 mph (56.5 km/h). The second test, conducted on April 4, 2000, involved two rail cars coupled together impacting a rigid barrier at 26 mph (41.8 km/h). The objective of the interior tests was to determine the corresponding level of occupant safety for the impact scenarios. The cars were equipped with anthropomorphic test devices (ATDs). The following three experiments were in the lead car: (1) forward-facing unrestrained occupants seated in rows, compartmentalized by the forward seat in order to limit the motions of the occupants; (2) forwardfacing restrained occupants with lap and shoulder belts; and (3) rear-facing unrestrained occupants. The trailing car had one experiment similar to the first one in the lead car: forward-facing unrestrained occupants seated in rows, compartmentalized by the forward seat in order to limit the motions of the occupants....



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