



# Role of the Seat in Rear Crash Safety

*David C. Viano*

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## **Role of the Seat in Rear Crash Safety** David C. Viano

Role of the Seat in Rear Crash Safety addresses the historic debate over seatback stiffness, energy absorbing yielding, occupant retention and whiplash prevention; and it provides a scientific foundation for the direction GM pursued in the development and validation of future seat designs. It also describes the multi-year research study into the role of the seat in rear crash safety - first by addressing the need for occupant retention in the more severe rear crashes; and then by addressing the needs for an adequately positioned head restraint and changes in the compliance of the seatback to lower the risks of the whiplash in low-speed crashes. Chapters covered include: Significance of Rear Crash Injuries; A New Procedure to Evaluate Occupant Interactions with the Seat in Rear Crashes ; Role of the Seat in Rear Crash Safety; Performance Criteria for Quasistatic Seat Tests (QST) and Head Restraint Placement; Ultra-High Retention Seat; Human Head, Neck and Torso Responses to Pendulum Impacts on the Back; Self-Aligning Head Restraint (SAHR) System for Whiplash Prevention ; Energy Absorption Properties of Head Restraints Neck Biomechanical Responses with Active Head Restraint Systems: Rear Barrier Test with BioRID and Sled Tests with Hybrid III; High Retention Seat Performance in Quasistatic Seat Tests; Plus much more!

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