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Nota di contenuto	Introduction -- Technical Papers. Biomechanical Performance of a New Head and Neck Support (902312)/ Hubbard, R. P. and Begeman, P. C. -- Racing Car Restraint System Frontal Crash Performance Testing (942482) / Melvin, J. W., Little, W. C., et al. -- Development of the HANS Head and Neck Support for Formula One (983060) / Gramling, H., Hodgman, P., and Hubbard, R. -- Biomechanical Analysis of Indy Race Car Crashes (983161)/ Melvin, J. W., Baron, K. J., et al.-- Barrier Testing (983061) / Wright, P., and Mellor, A. -- Development and Field Performance of Indy Race Car Head Impact Padding / (2001-22-0019) Melvin, J. W., Bock, H., et al. -- Sled Test Evaluation of Racecar Head/Neck Restraints - Revisited (2004-01-3516) / Melvin, J. W., Begeman, P. C., and Foster, C. D. -- Biomechanical Principles of Racecar Seat Design for Side Impact Protection (2004-01-3515) / Melvin, J. W., and Gideon, T. W. -- Race Car Nets for the Control of Neck Forces in Side Impacts (2004-01-3513) / Gideon, T. W., Melvin, J.,

and Begeman, P. -- Initial In-Service Performance Evaluation of the SAFER Racetrack Barrier (2004-01-3526) / Bielenberg, R., Faller, R., et al. -- Crash Protection of Stock Car Racing Drivers - Application of Biomechanical Analysis of Indy Car Crash Research (2006-22-0016) / Melvin, J. W., Begeman, P. C., et al. -- Stock Car Racing Driver Restraint - Development and Implementation of Seat Performance Specification (2008-01-2974) / Patalak, J. P., and Melvin, J. W. -- Examination of a Properly Restrained Motorsport Occupant (2013-01-0804) / Patalak, J. P., Gideon, T. W., and Melvin, J. W.

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#### Sommario/riassunto

For many years, the evolution of safety improvements in motorsports was the result of a combination of science and perceived safe practices. Most safety developments were not based on rigorous laboratory testing, but rather on intuition and a "let's try it and see what happens" approach. During the last few decades, motorsports has benefited from the organized research efforts made possible by academia, manufacturers, and sanctioning bodies, leading to present-day motorsports safety methodologies based on solid data and testing. This compendium, edited by some of the foremost racing safety experts, comprises selected technical papers that document the development and implementation of key motorsports safety technologies now in use. It is intended to provide racing professionals and enthusiasts with a concise overview of the significant engineering developments in motorsports driver safety that has occurred during the past two decades. The 13 papers chosen for this compendium, published between 1990 and 2013, reflect landmark safety studies and developments of that time.

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