

# Role of the Seat in Rear Crash Safety

David C. Viano

**SAE** International



# Role Of The Seat In Rear Crash Safety

**Narayan Yoganandan, Frank A. Pintar**



## **Role Of The Seat In Rear Crash Safety:**

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**Role of the Seat in Rear Crash Safety**,19?? **Rear Impact Danger** Arthur W Hoffmann EngD,2020-04-30 Automotive rear impacts are the most common type of car accident with 2 5 million occurring each year Most often the vehicle property damage is minor with no occupant injury However more serious rear end collisions can result in life changing events There are two major injury types caused by rear impact accidents Whiplash non lethal injury and Seat Collapse potential serious or lethal injury Driver and front passenger seats all too often fail with the seatback collapsing ejecting the occupants rearward into the rear seat area with serious consequences Seat design strength requirements are covered by FMVSS 207 Seat Systems Standard The auto companies rely on this standard to test their seatsdard The FMVSS 207 standard for seatback strength is flawed auto compaies use this requirement to allow the seatback to deform during a serious rear impact to achive enery management The controversy over seatback strength Rigid versus Yielding continues today An occupied front seat that collapses during a rear impact can entrap rear seat occupants especially children that are required to sit in the rear row seats Safety advocates and researchers report that for the period 1990 to 2014 nearly 900 children seated behind a front seated occupant or in a center rear seat died in rear impacts of 1990 and later model year cars Law suites are prevalent and multi million dollar penalties or settlements resulted and litigation continue today Rear end crashes also involve vehicle occupants in other automotive design hazards Use of Child Restraints CRS is essentaial

**Journal of Rehabilitation Research and Development** ,2009 **Journal of Rehabilitation Research & Development** ,1999 **Air Bag Development and Performance** Richard W Kent,2003-03-03 Follow the fascinating development of the automotive air bag from its introduction to the latest advances in this comprehensive collection of papers from both SAE and other professional sources complete with informative diagrams

graphics and charts Air Bag Development and Performance New Perspectives from Industry Government and Academia begins with five chapters one each from Editor Richard Kent and the collection s four Associate Editors offering the authors unique perspectives on the history development or performance of these important safety devices Approximately 50 selected SAE government and other papers are also provided in their entirety along with the titles and abstracts of about 90 other papers listed as recommended reading and the titles of some 600 related papers for further reference included in a bibliography at the end of the book      *Accelerated Quality and Reliability Solutions* Lev M. Klyatis,Eugene

Klyatis,2010-07-07 Drawing of real world issues and with supporting data from industry this book overviews the technique and equipment available to engineers and scientists to identify the solutions of the physical essence of engineering problems in simulation accelerated testing prediction quality improvement and risk during the design manufacturing and maintenance stages For this goal the book integrates Quality Improvement and Accelerated Reliability Durability Maintainability Test Engineering concepts Accelerated Quality and Reliability Solutions includes new and unpublished aspects in quality complex analysis of factors that influence product quality and other quality development and improvement problems during design and manufacturing in simulation the strategy for development of accurate physical simulation of field input influences on the actual product a system of control for physical simulation of the random input influences a methodology for selecting a representative input region for accurate simulation of the field conditions in testing useful accelerated reliability testing UART accelerated multiple environmental testing technology trends in development of UART technology in studying climate and reliability in prediction accurate prediction AP of reliability durability and maintainability criteria of AP development of techniques etc The book includes new and effective aspects integration of quality reliability and maintainability Other key features Includes aspects of quality integrated with reliability which can help to solve earlier inaccessible problems during design manufacturing and usage Develops a new approach to improving the engineering culture for solving quality and reliability problems Enables the accurate prediction of quality reliability durability and maintainability Proposes strategies for accelerated quality reliability durability and maintainability improvement and development Combines new techniques with equipment for accurate physical simulation of field situation mechanical electrical multi environmental and other influences as well as human and other factors for development accelerated testing including reliability testing and research Overviews the latest techniques in physical simulation accelerated testing prediction of reliability durability and maintainability quality development and improvement safety aspects of risk assessment especially for transportation Supported by real life examples and industry data Deals with the latest techniques in physical simulation accelerated testing prediction of reliability durability maintainability quality development and safety aspects of risk assessment Provides step by step guidance on the accurate prediction of quality factors the physical simulation of field situations and of accelerated reliability testing Dramatically reduces recalls by solving product improvement problems through the integration of quality

development with reliability      **Crash Reconstruction Research** Michael S Varat,2008-03-17 The science of crash reconstruction enables engineers to determine the most probable scenario for how and why traffic collisions occur Ongoing research has continually enhanced crash reconstructionists knowledge of the application of physical laws in this field Crash Reconstruction Research 20 Years of Progress 1988 2007 features 47 papers that have presented significant steps forward focusing on the following areas within the field of crash reconstruction that have experienced major advances Planar Impact Mechanics Stiffness Modeling Crash Pulse Analysis Structural Restitution Lateral Deformation and Override Underride BEV v Delta V Rear and Side Impacts Pole Impacts Uncertainty Analysis Pedestrian Crashes Braking Performance      *Road and Off-Road Vehicle System Dynamics Handbook* Gianpiero Mastinu,Manfred Ploechl,2014-01-06 Featuring contributions from industry leaders in their respective fields this volume presents comprehensive authoritative coverage of all the major issues involved in road vehicle dynamic behavior It begins with a short history of road and off road vehicle dynamics followed by thorough detailed state of the art chapters on modeling analysis and optimization in vehicle system dynamics vehicle concepts and aerodynamics pneumatic tires and contact wheel road off road modeling vehicle subsystems vehicle dynamics and active safety man vehicle interaction intelligent vehicle systems and road accident reconstruction and passive safety

**Human Subject Crash Testing** Lawrence S Nordhoff,Michael D Freeman,Gunter Siegmund,2007-03-30 For more than 50 years crash studies involving human subjects have improved understanding of occupant and vehicle kinematics helped explain injury mechanisms in lower speed collisions and led to improved seat and vehicle design Human Subject Crash Testing Innovations and Advances includes 42 of the most important historical and current studies which used living human subjects in frontal side and rear end impacts Covering more than 50 years of research from 1955 through 2006 the book includes numerous landmark SAE papers as well as papers from other conference proceedings Papers were chosen based on criteria that included quality and rigor of methods uniqueness number of subjects and long term reference value This book also features a comprehensive bibliography which contains brief summaries of other relevant human subject crash test studies that are not included in the book      *Modeling of Road Traffic Events* Jerzy Kisilowski,Jarosław Zalewski,2022-01-01 This books reviews and brings readers up to date with the latest research knowledge on road traffic safety It describes and discusses mathematical descriptions of the process of a motor vehicle crash and indicates the various factors that impact on collision models It tackles also vehicle stability and shows how the forces generated in crashes result in different extents of post accident repair Mathematical models that simulate vehicle stability data are compared with those of real vehicles Practical uses of the models are explained to readers The book will be of interest to researchers in transport and vehicle technology well as automotive industry professionals      Journal of Rehabilitation R & D ,2000      *Diesel Emissions and Their Control* Magdi K Khair,W Addy Majewsky,2006-12-01 This book will assist readers in meeting today s tough challenges of improving diesel engine emissions diesel efficiency and public perception of the diesel engine It can be used as an

introductory text while at the same time providing practical information that will be useful for experienced readers This comprehensive book is well illustrated with more than 560 figures and 80 tables Each main section is broken down into chapters that offer more specific and extensive information on current issues as well as answers to technical questions

**Advances in Side Airbag Systems** Donald E Struble,2005-01-15 Thanks to years of research and development by vehicle manufacturers suppliers legislation and the entire safety community the side airbag has become a critical safety device to reduce injury and save lives This new collection of technical research highlights the progression of these essential safety features providing a complete and thorough perspective through the analysis of both early patents and recent side airbag system developments *Advances in Side Airbag Systems* begins with an introduction by editor Donald E Struble chronicling the progress made since the mid 1980s in offering improved side impact protection to the motoring public Authored by leading experts in their respective fields this book features a comprehensive collection of 26 landmark technical papers Its scope includes not only thorax airbags but other inflatable devices designed for side impacts and rollovers To the extent that technological infrastructure considerations are unique to side airbags papers in these areas are included as well

*Impact Biomechanics* Society of Automotive Engineers,2002 Thirteen papers from the biomechanics technical sessions of the 2002 SAE congress use laboratory experiments computer models and field data to evaluate the human body s kinematics kinetics and injury potential in response to impact loads caused by automobile accidents Topics include finite elem

Frontiers in Whiplash Trauma Narayan Yoganandan, Frank A. Pintar,2000 One of the goals for the proposed book is to bring together leading experts in the world working in multidisciplinary areas including epidemiology biomechanics experimental and analytical research physical modeling and clinical aspects of whiplash injury The contributing authors have submitted chapters in their area of expertise 39 Chapters are included that cover the above aspects Contributions by the federal government industry health care professionals academic researchers and various experts from the United States and abroad are included **Air Bags, Car Seats, and Child Safety** United States. Congress. House. Committee on Commerce.

Subcommittee on Telecommunications, Trade, and Consumer Protection,1997 The 17th International Conference Interdisciplinarity in Engineering Liviu Moldovan, Adrian Gligor,2024-03-28 This book contains research papers that were accepted for presentation at the 17th International Conference on Interdisciplinarity in Engineering INTER ENG 2023 which was held on 5 6 October 2023 in the city of T rgu Mure Romania The general scope of the conference Towards transition for a more competitive European industry in a smart safe and sustainable future is proposing a new approach related to the development of a new generation of smart factories grounded on the manufacturing and assembly process digitalization It is related to advance manufacturing technology lean manufacturing sustainable manufacturing additive manufacturing manufacturing tools and equipment It is a leading international professional and scientific forum of great interest for engineers and scientists who can read in this book research works contributions and recent developments as well as current

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*Proceedings of the ASME Applied Mechanics Division ,2004*

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