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special emphasis on the heterogeneous automotive vehicle systems approach and is intended as a graduate text as well as a reference for scientists and engineers involved in the design of automotive mechatronic control systems As the complexity of automotive vehicles increases so does the dearth of high competence multi disciplined automotive scientists and engineers This book provides a discussion into the type of mechatronic control systems found in modern vehicles and the skills required by automotive scientists and engineers working in this environment Divided into two volumes and five parts Automotive Mechatronics aims at improving automotive mechatronics education and emphasises the training of students experimental hands on abilities stimulating and promoting experience among high education institutes and produce more automotive mechatronics and automation engineers The main subject that are treated are VOLUME I RBW or XBW unibody or chassis motion mechatronic control hypersystems DBW AWD propulsion mechatronic control systems BBW AWB dispulsion mechatronic control systems VOLUME II SBW AWS diversion mechatronic control systems ABW AWA suspension mechatronic control systems This volume was developed for undergraduate and postgraduate students as well as for professionals involved in all disciplines related to the design or research and development of automotive vehicle dynamics powertrains brakes steering and shock absorbers dampers Basic knowledge of college mathematics college physics and knowledge of the functionality of automotive vehicle basic propulsion dispulsion conversion and suspension systems is required

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and therefore they will be able to decide and help to decide Smart systems will enable the automobile to interact with the environment they will perform multiple tasks and assist a variety of activities Smart systems will be highly reliable often networked and energy autonomous There is a coincidence of the AMAA objectives and those of EPoSS the European Technology Platform on Smart Systems Integration contributing intensively to the development of automotive specific smart systems You will find a series of the EPoSS items in the programme of the 10th AMAA which continues to be a unique exchange forum for companies in the automotive value chain The publication in hand also reflects these issues It is a cut out of new technological priorities in the area of microsystems based smart devices and opens up a mid term perspective of future smart systems applications in automobiles Additional information is available on [www.amaa.de](http://www.amaa.de) *Advanced Microsystems for Automotive Applications 2008* Jürgen Valldorf,Wolfgang Gessner,2008-04-16 With the total number of vehicles steadily increasing and soon approaching one billion the world is facing serious challenges in terms of both safety of road transport and sustainability Consequently the two major persistent issues for the automotive industry are improved safety and reduced emissions The estimated number of road fatalities is about one million per year Fast growth of mobility in the developing world and an accelerated urbanisation pose high demands to the automotive industry Thanks to smart systems anticipating dangerous traffic situations road fatalities will have dropped by more than 30% from 2001 to 2010 Beyond intensive stock rearing with 30% the major contributor to climate change road traffic is one of the main sectors contributing to climate change exhaust gases from vehicle engines account for about 20% of the greenhouse gas emissions Car industry is bearing this challenge and enormous progress has been achieved particularly during the last decade

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