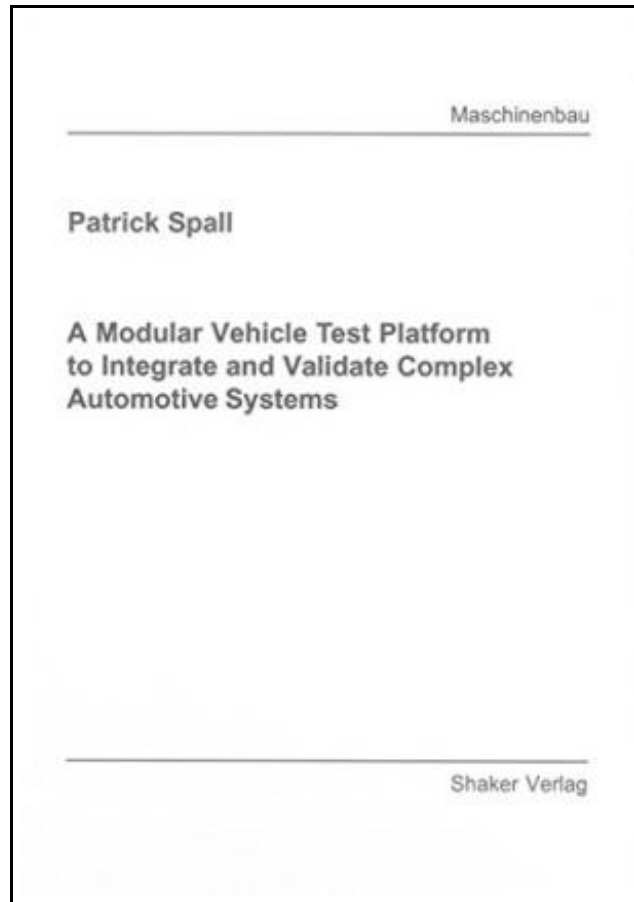


## A Modular Vehicle Test Platform to Integrate and Validate Complex Automotive Systems



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Shaker Verlag Jan 2012, 2012. Buch. Book Condition: Neu. 211x146x12 mm. Neuware - In a conjoint research project the Department of Mechanism Theory and Dynamics of Machines of the RWTH Aachen University and the Continental Automotive GmbH elaborated a concept for a modular overall vehicle research and development platform to verify and validate complex embedded electric/ electronic systems especially applicable for electric hybrid and electric driven vehicles. Basic designs of electric hybrid vehicle drive train layouts are briefly pictured. A classification of hybrid vehicles according to the increasing function range and to the corresponding complexity in research and development is described. The continuous progress in driver and safety assistance systems will most likely bring forth drive-bywire technology in future vehicles. The fully electro-mechanical by-wire technology requires suitable redundant designs and a robust electrical energy supply developed and tested according to the identified risks, the likelihood of hazardous events and the potential health consequences to persons. The aim to control and even manage the rising complexity of future vehicle technology in a reliable and faultless manner leads to new approaches in R&D, e.g. model based development to support system understanding. These approaches have to include technical know-how, project management, socio-cultural understanding and the building up of therefore adapted business knowledge. A major focus has to be put on the integrated product creation process using a common engineering information structure, development structure and testing structure also to be used for later vehicle integration and validation. For fast and efficient integration a flexible overall test platform to combine simulation and real testing at laboratory conditions is necessary. The design of a modular overall vehicle test platform combining system stimulation and simulation is shown. Different set-ups of the platform are explained using several examples of integration use cases. The development and test platform is...



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