

# Inhaltsverzeichnis

**Strategic optimization of powertrain technology portfolios by means of market simulation**

Nils Robert Neumann, Jan Bavendiek und Prof. Dr. Lutz Eckstein

**Design of battery electric vehicles in accordance with legal standards and manufacturers' and customers' requirements**

Dr. Fabian Schüppel, Michael Schlüter und Dr. Jan Gacnik

**48V –Where to place the e-machine?**

Thomas Pels, Vitali Davydov, Dr. Raimund Ellinger, Carsten Kaup und Dr. Wolfgang Schöffmann

**Synthesis of various hybrid drive systems**

Andreas Englisch, Thomas Pfund, Dierk Reitz, Emmanuel Simon und Florian Kolb

**Tailored diesel engines for electrical propulsion systems or tailored electrification for future diesel powertrains**

Thomas Körfer, Bastian Holderbaum, David Blanco-Rodriguez, Giovanni Vagnoni und Markus Eisenbarth

**The intelligent operating strategy of the Mercedes-Benz plug-in hybrid electric vehicles**

Dr. Daniel Görke, Jochen Strenkert, Stefan Schmiedler, Tobias Schürmann und Lukas Engbroks

**Thermal management of a fuel cell range-extended electric vehicle**

Johannes Höflinger und Prof. Dr. Peter Hofmann

**Highly fuel-efficient transmission and propulsion concepts**

Prof. Dr. Ferit Küçükay, Lin Li und Andreas Lange

**Innovative electric motors for the future electric powertrain**

Dr. Peter Fischer, Dr. Martin Braun, Dr. Stephan Usbeck und Ralf Schmid

**Protection for HV battery systems – humidity control**

Dr. Michael Harenbrock, Jürgen Kosicki und Dr. Stefan Kunze

**Battery-electric vehicle efficiency potential assessment and thermal aging investigation**

Alessandro Colla, Tomaž Katrašnik, Konstantin Walter und Dr. Franz Diwoky

**Synthesis of electrified drive systems**

Hendrik Piechottka, Dr. Sebastian Grams, Axel Sturm und Prof. Dr. Ferit Küçükay

**The interaction between tribology and emissions under real driving conditions (RDE)**

Christian Lensch-Franzen, Prof. Dr. J. Hadler, Dr. M. Gohl, Dr. J. Becker, T. Mink und J. Wang

**Real-time capable model environment for developing and testing hybrid and battery electric vehicles**

Dr. Christian Donn und Valerie Bensch

**Dynamic downsizing gasoline demonstrator**

Dr. Mike Bassett, Jonathan Hall, Tony Cains, Dr. Stephen Borman und Simon Reader

**Potential of the hybrid operating modes of the plug-in hybrid powertrain concept ‘Two-Drive Transmission with Range Extender’ (DE-REX)**

Sebastian Fischer, Andreas Viehmann, Ruben König, Prof. Dr. Christian Beidl und Prof. Dr. Stephan Rinderknecht

**Tagungsbericht**

Martin Westerhoff