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Society of Automotive Engineers (SAE),
"Automotive Design", 2006 GE Aviation,
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GE Aviation, "Change Acceleration Process" , 2012

Racing continues to be the singular, preeminent source of powertrain development for automakers worldwide. Engineering teams rely on motorsports for the latest prototype testing and research. Endurance racing provides the harshest and most illuminating stage for system design validation of any motorsport competition. While advancements throughout the 20th Century brought about dramatic increases in engine power output, the latest developments from endurance racing may be more impactful for fuel efficiency improvements. Hybrid powertrains are a critical area of research for automakers and are being tested on the toughest of scales. Prototype Powertrain in Motorsport Endurance Racing brings together ten vital SAE technical papers and SAE Automotive Engineering magazine articles surrounding the advancements of hybrid powertrains in motorsports. The book also includes a history of endurance racing from the World Sports Car Championship through the 24 Hours of Le Mans to the World Endurance Championship written by the author. The goal is to provide the latest concepts being researched and tested on hybrid systems that will influence vehicles for years to come - appealing to engineers and enthusiasts alike.

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100 years after the introduction of the Model T, this illustrated history tells the full story of the car that launched the American auto industry.

Every year global automakers introduce new or significantly re-engineered passenger vehicles with increasingly advanced technology intended to exceed consumer expectations and satisfy increasingly stringent government regulations. Some of these technologies are firsts-of-their-kind and start trends that other automakers soon follow--with the innovations becoming adopted across the board. The supply community is also increasingly playing a more significant role in helping the original equipment manufacturers research, develop, and introduce the latest engineering innovations that help bring competitive advantage for their automaker partners. Each year, the editors of SAE's Automotive Engineering magazine publish many articles focused on the technology and engineering innovations of new passenger and concept vehicles, and these articles have been collected into this volume. This 2015 Passenger Car and 2014 Concept Car Yearbook is the fourth in an ongoing series of books that provide yearly

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snapshots of the latest and greatest technologies introduced by the automotive industry. In this book, we explore from an OEM and supplier perspective the newest and most technically interesting production vehicles released for the 2015 model year. In addition, we also have included a technology-focused recap of the concept cars revealed during 2014. Readers will have, in one publication, a complete overview of the key advances that took place over the course of the year from around the world. Each new model is profiled in its own chapter with one or more articles by the award-winning editors and contributors of Automotive Engineering in this exclusive compilation of print and online content. The novel engineering aspects of each new vehicle are explored, with exclusive interviews of key engineers and product developers providing insights you can only get from you can only get from Automotive Engineering. This book is published for the most technically-minded enthusiasts who are interested in new car technologies, as well as practicing automotive engineers who are interested in new engineering trends. Engineering trends explored focus on what engineers are doing to meet the sometimes conflicting consumer and governmental demands for improved vehicle fuel efficiency, performance, safety and comfort.

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Yearbook is the fourth in an ongoing series of books that provide yearly snapshots of the latest and greatest technologies introduced by the automotive industry. ...Every year global automakers introduce new or significantly re-engineered passenger vehicles with increasingly advanced technology intended to exceed consumer expectations and satisfy increasingly stringent government regulations. ...Each year, the editors of SAE's Automotive Engineering magazine publish many articles focused on the technology and engineering innovations of new passenger and concept vehicles, and these articles have been collected into this volume. This 2015 Passenger Car and 2014 Concept Car Yearbook is the fourth in an ongoing series of books that provide yearly snapshots of the latest and greatest technologies introduced by the automotive industry."--

The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less

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air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion

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