



## Newly-added

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The following is a summary of all publications added to the SAE Mobilus technical resource platform in December 2021. Click below and the SAE Mobilus search results for the content type selected will populate.

### SAE Solutions

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## Webinar Series

**Wednesday, January, 19, 2022 | 11 a.m. EDT**

[Meet the Authors: Racing Toward Zero, the Untold Story of Driving Green](#), featuring Kelly Senecal and Felix Leach.

It's not a matter of choosing between combustion or electrification; it's combustion and electrification. As the authors say, "*The future is eclectic.*"

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## TOP 2021 Most Read SAE Titles

- [AMS5573M - Steel, Corrosion and Heat-Resistant, Seamless Tubing 17Cr - 12Ni - 2.5Mo \(SAE 30316\) Solution Heat Treated](#)
- [J1939 Digital Annex](#)
- [The Road Forward: More Conversations with Top Women in the Automotive Industry](#)
- [Crashworthiness Performance of Multi-Cornered Structures under Quasi-Static Compression and Dynamic Axial Loading Conditions](#)
- [Unsettled Issues Regarding Autonomous Vehicles and Open-source Software](#)



## Aerospace Standards & Aerospace Material Specifications

- [AS6969B - Data Dictionary for Quantities Used in Cyber-Physical Systems](#)
- [AIR7988 - Impact of Alkali Metal-Based Runway De-Icing Fluids on Aircraft Electrical Systems](#)
- [AS9003B - Inspection and Test Quality Systems, Requirements for Aviation, Space, and Defense Organizations](#)

- [AS6923 - Portable Measuring Devices/Systems for Maintenance Troubleshooting of Aircraft Cabin and Flight Deck Air Quality Issues](#)
- [AS6453A - Fire Containment Cover - Design, Performance, and Testing Requirements](#)

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## Ground Vehicle Standards

- [J3168 202112 - Reliability Physics Analysis of Electrical, Electronic, and Electromechanical Equipment, Modules and Components](#)
- [J3155 202112 - Camera Monitor Systems Test Protocols and Performance Requirements](#)
- [J2380 202112 - Vibration Testing of Electric Vehicle Batteries](#)
- [J2280 202112 - Ship Systems and Equipment - Fasteners - Selection and Identification Guidance](#)
- [J2836/5 202112 - Use Cases for Customer Communication for Plug-in Electric Vehicles](#)

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## Technical Papers

- [Automatic Emergency Collision Avoidance of Four-Wheel Steering Based on Model Following Control](#)
- [Machine-Learned Emission Model for Diesel Exhaust On-Board Diagnostics and Data Flow Processor as Enabler](#)
- [Development of 1.5L Dedicated Hybrid Engine with 42.6% Brake Thermal Efficiency](#)
- [Hybrid Electric Vehicle Energy Management Based on Network Technology](#)
- [Path Tracking for Driverless Vehicle Under Parallel Parking Based on Model Predictive Control](#)

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## [SAE MobilityRxiv®](#)

This **free online archive and sharing service** provides English-language preprints in the mobility/transportation field, including ground vehicles, commercial vehicles, and aerospace and aviation.

- [Analysis of Water Injection and Improvement of Turbulent Flows in Split Cycle Engine Compressor](#)

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## Journal Articles

- [A Novel Idea for Replacement of Traditional Catalytic Converter with Multi-tubular Solid Oxide Fuel Cell](#)
- [In-Cylinder Combustion Studies of Diesel-Compressed Natural Gas Dual Fuel with Increasing Energy Fraction and Its Effect on Emissions](#)
- [Development and Validation of a Multi-zone Predictive Combustion Model for Large-Bore Dual-Fuel Engines](#)
- [Research on Yaw Stability Control of Multi-axle Electric Vehicle with In-Wheel Motors Based on Fuzzy Sliding Mode Control](#)
- [Comparative Fretting Fatigue Life Evaluation between Critical Plane Based and Deviatoric Strain Amplitude Based Methods Corrected for Surface Wear Damage](#)

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## EDGE Research Reports

- [Unsettled Issues Concerning Automated Driving Services in the Smart City Infrastructure](#)
- [Unsettled Issues in Remote Operation for On-road Driving Automation](#)
- [Unsettled Topics in Obstacle Detection for Autonomous Agricultural Vehicles](#)

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## Professional Development

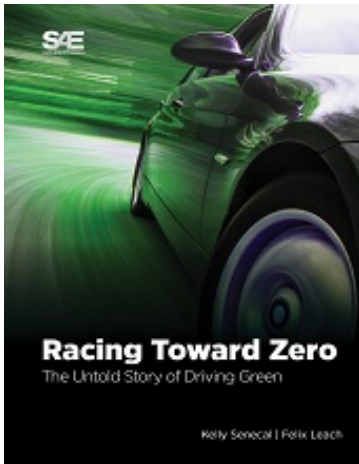
### [Introduction to Hybrid Electric Vehicle Systems | PD291809](#)

At the conclusion of this course from SAE training partner FutureTech\*, participants will have a firm knowledge of hybrid system operation based on the different powertrain configurations and how scan tool data and diagnostics differ from traditional vehicles. Ford, GM, Honda, Hyundai, Lexus, Toyota hybrid electric vehicle products are featured.

[Lean More](#)



## Book Spotlight



In ***Racing Toward Zero***, the authors explore the issues inherent in developing sustainable transportation. They review the types of propulsion systems and vehicle options, discuss low-carbon fuels and alternative energy sources, and examine the role of regulation in curbing emissions.

[Read More](#)



## Events

### [On-Board Diagnostics Digital Summit-Europe](#)

**March 15-17, 2022 | Online & On-Demand**

“Attendees will learn the latest updates in the OBD regulations worldwide, the latest challenges

and the latest technologies to meet these challenges. This event also gives a good background about OBD for newer professionals.”

— Farah Hindi, OBD Technologist, LTTS

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Here are the latest happenings and benefits:

- **Mentor Mixer: Fear of Public Speaking**, January 25 & 26 – Join the discussion on how to prepare for public speaking and presentations; answer the mentor experts’ questions, and/or ask your own. You can access this mixer by logging into [Member Connection](#).
- [Engineers’ Week Electrification Chat, volunteer experts needed](#), February 21 & 22 – Apply today to help lead the discussion electrification during SAE Engineers’ Week 2022.

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[Learn more](#) about how SAE is responding to the coronavirus (COVID-19) pandemic.

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