



Newly-added

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The following is a summary of all publications added to the SAE Mobilus technical resource platform in May 2023. Click below and the SAE Mobilus search results for the content type selected will populate.

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Webinar Series

June 21, 2023 | 11 a.m. EST

Meet the Expert: Dr. Brian Kozumplik | Manager – System Safety at Nexteer Automotive

Log in for a **LIVE** interview to learn more about his insights across his Edge Research Report, [“Electric Charging Intended Functionality, Availability, and Equity Inclusion.”](#)

We will also have an **Edge Research Report** giveaway for two random attendees!

New to the Movement? [Learn More](#)

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Ongoing Learning Opportunities

[SAE Mobilus Spotlight](#)

June 27, 2023 | 9 a.m. EST

Discover what's new in under 30 minutes.

Discover the latest titles in Advanced Manufacturing.

Join us for a highlight of the best practices in searching the standards, the latest research, and what organizations are publishing in the field.

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Aerospace Standards & Aerospace Material Specifications

Aerospace Standards and Aerospace Materials Specifications [107]

- [Guidelines for the Development of Architectures for Integrated Vehicle Health Management Systems](#)
- [CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE \(FOR AS50151 SERIES AS34001 AND AS95234 CONNECTORS\)](#)

- [High-Voltage DC Electromechanical, Solid State, and Hybrid Switching Devices in Aerospace Applications](#)
- [Tolerances Copper and Copper Alloy Sheet, Strip, and Plate](#)
- [Plating, Tin-Lead \(Electrodeposited\)](#)
- [Heat Transfer Fluid, Fluorochemical](#)

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Ground Vehicle Standards

Ground Vehicle Standards [37]

- [Electric Vehicle Power Transfer System Using Conductive Automated Connection Devices](#)
- [Electric Vehicle Power Transfer System Using Conductive Automated Connection Devices Infrastructure-Mounted Pantograph \(Cross-Rail\) Connection](#)
- [Test Procedures for the Plug-In Electric Vehicle \(PEV\) Interoperability with Electric Vehicle Supply Equipment \(EVSE\)](#)

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Technical Papers

Technical Papers [154]

- [A 3D-CFD Numerical Approach for Combustion Simulations of Spark Ignition Engines Fuelled with Hydrogen: A Preliminary Analysis](#)
- [Development of 50% Thermal Efficiency S.I. Engine to Contribute Realization of Carbon Neutrality](#)
- [Challenges and Opportunities with Direct-Injection Hydrogen Engines](#)

Check Out the Titles from [the Noise and Vibration Conference & Exhibition!](#)

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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.

- [Impact of Ultra-Capacitor in a Battery Electric Vehicle](#)

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Journal Articles

Journal Articles [21]

- [Adaptive Slicing of Point Cloud Directly with Discrete Interpolable-Area Error Profile in Additive Manufacturing](#)
- [Analysis of the Influence of Image Processing, Feature Selection, and Decision Tree Classification on Noise Separation of Electric Vehicle Powertrains](#)
- [Safety Distance Determination Methods for Hydrogen Refueling Stations: A Review](#)
- [Modeling and Control of Hybrid Energy Storage Systems on a Hybrid Super Sports Car](#)

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EDGE Research Reports

EDGE Research Reports [3]

- [Evaluation of the In-vehicle Experience](#)
- [Responder-to-Vehicle Technologies for Connected and Autonomous Vehicles](#)
- [Process Control for Defect Mitigation in Laser Powder Bed Fusion Additive Manufacturing](#)

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Professional Development

[Safe Handling of High Voltage Battery Systems C1019](#)

This seminar will introduce participants to the risks encountered in handling high voltage battery systems and their component parts.

[Lean More](#)

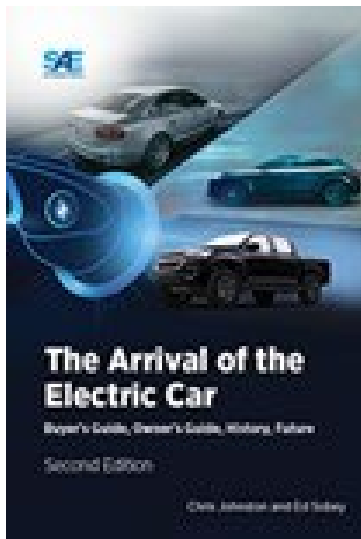
[Hybrid and Electric Vehicle Engineering Academy ACAD06](#)

The Hybrid and Electric Vehicle Engineering Academy covers hybrid and electric vehicle engineering concepts, theory, and applications relevant to HEV, PHEV, EREV, and BEV for the passenger car industry.

[Lean More](#)



Book Spotlight



[The Arrival of the Electric Car](#)

by **Chris Johnston | Ed Sobey**

In *The Arrival of the Electric Car* Chris Johnston and Ed Sobey provide a comprehensive, easy-to-understand overview of the passenger EV universe including guides for buying and owning an electric car.

[Read It!](#)



Events

[SAE On-Board Diagnostics Symposium](#)

September 12-14, 2023 | Indianapolis, IN

This symposium will bring industry leaders together to discuss relevant and timely technical topics that directly influence ground vehicle emission reduction efforts.

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Membership

SAE Membership and Community Engagement Information

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- [SAE Mentor Program](#) – Become an SAE Mentor and share your experience and industry knowledge with the next generation of SAE Members.
- June is Volunteer Recognition Month, and we want to celebrate you, our volunteers! Check out all the action on [Connexion+](#)

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