



April 2020 Newsletter

April Publication Newsletter

The following is a summary of all publications added to the SAE MOBILUS technical resource platform in March 2020. Selecting a content type below will display the SAE MOBILUS search results for the content type selected.

- [Magazine Articles](#) (121)
- [Technical Papers](#) (58)
- [Aerospace Standards](#) (43)
- [Ground Vehicle Standards](#) (18)
- [Journal Articles](#) (17)
- [Books](#) (5)
- [SAE Professional Development](#)
- [Journals](#) (5)
- [Aerospace Material Specifications](#) (4)
- [SAE EDGE™ Research Reports](#) (2)
- [SAE Events](#)

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

April 2020 Webinar

April 15, 2020 | 11 a.m. EST

Sign up for our monthly webinar hosted by our SAE Customer Success Specialist, Angela Kenner. This open WebEx will highlight newly released SAE publications, guest speakers from

our Product Team and allow for our audience to engage with our team and content.

April Guest Speaker: Dr. Rahul Razdan, Senior Director of Special Projects at the Florida Polytechnic University. Dr. Razdan will discuss his new SAE EDGE™ Research Report, [Unsettled Topics Concerning Automated Driving Systems and the Development Ecosystem](#).

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Ground Vehicle Standards:

- [\(J1939DA_202003\) J1939 Digital Annex](#)
- [\(J2945/3_202003\) Requirements for Road Weather Applications](#)
- [\(J2719_202003\) Hydrogen Fuel Quality for Fuel Cell Vehicles](#)
- [\(J2838_202003\) Full Adaptive Forward Lighting Systems](#)
- [\(J1051_202003\) Force-Deflection Measurements of Cushioned Components of Seats for Off-Road Work Machines](#)

[View All 18](#)

Aerospace Standards and Aerospace Specifications:

- [\(ARP5415B\) User's Manual for Certification of Aircraft Electrical/Electronic Systems for the Indirect Effects of Lightning](#)
- [\(AIR6915\) Human Factor Considerations in the Implementation of IVHM](#)
- [\(AS95234\) General Specification for Connectors, Electrical, Reverse Bayonet](#)
- [\(ARP6283/1\) In-Service Fiber Optic Inspection, Evaluation, and Cleaning, Best Practices, Expanded Beam Termini](#)
- [\(ARP6283/2\) In-Service Fiber Optic Inspection, Evaluation, and Cleaning, Best Practices, Multi-Fiber Push on Termini](#)

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Technical Papers:

- [Brain Strain from Motion of Sparse Markers](#)
- [Human Response and Injury Resulting from Head Impacts with Unmanned Aircraft Systems](#)
- [PMHS and WorldSID Kinematic and Injury Response in Far-Side Events in a Vehicle-Based Test Environment](#)
- [Response Ratio Development for Lateral Pendulum Impact with Porcine Thorax and Abdomen Surrogate Equivalents](#)
- [Factors Affecting Child Injury Risk in Motor-Vehicle Crashes](#)

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SAE EDGE™ Research Reports:

- [Unsettled Technology Opportunities for Vehicle Health Management and the Role for Health-Ready Components](#)
- [Unsettled Topics Concerning Automated Driving Systems and the Development Ecosystem](#)

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Journal Articles:

- [Eco-profiling of Bio-epoxies via Life Cycle Assessment - SAE International Journal of Sustainable Transportation, Energy, Environment, & Policy](#)
- [Analysis of the Water Management on a Full Virtual Car Using Computational Fluid Dynamics - SAE International Journal of Materials and Manufacturing](#)
- [Optimal Design of Carbon Fiber B-Pillar Structure Based on Equal Stiffness Replacement - SAE International Journal of Transportation Safety](#)
- [A Modular Internal Combustion Engine Blow Rig and Cold-Flow Analysis Concept for Industrial Particle Image Velocimetry Measurements under Steady, Near-Reality Charge Air Conditions - SAE International Journal of Engines](#)

- [An Investigation of the Effects of the Piston Bowl Geometries of a Heavy-Duty Engine on Performance and Emissions Using Direct Dual Fuel Stratification Strategy, and Proposing Two New Piston Profiles - SAE International Journal of Engines](#)

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Professional Development:

SAE Training & Professional Development – Now Available [Online](#)

With the new remote work landscape, SAE has shifted many of our courses traditionally offered in-person to a live, web-based format. You can now join us online to learn from the experts you know and respect from the comfort of your home office. Featured offerings include:

- [Introduction to Hybrid and Electric Battery Systems](#)
- [Applying Automotive EDR to Traffic Crash Reconstruction](#)
- [Introduction to Highly Automated Vehicles](#)
- [FAA Part 21 Certification Procedures for Products and Parts](#)

Discover how you can expand your skills today.

[View Online Courses](#)

Books:

- [Straight Motion of Road Vehicles](#)
- [Project Management for Mobility Engineers: Principles and Case Studies](#)
- [McLaren: The Engine Company](#)
- [Driverless America](#)
- [Metallic Materials Properties Development and Standardization\(MMPDS\) Handbook - 14](#)

[View All 5](#)

Events:

- [AeroTech Publications](#) (36)
- [WCX Publications](#) (Available 04/14/2020)

SAE is helping you reach the global mobility industry with one click!

In response to COVID-19, several upcoming SAE Events have been cancelled. We look forward to hosting future events and bringing **global** industry experts together as soon as possible. In the meantime, our SAE team is working diligently on bringing thought leaders and industry experts together via Virtual Summits. The Virtual Summits will allow for the mobility industry throughout the world to convene during these unique times and allow for new connections and idea exchange. Event dates will be announced soon; for more information on attendance and sponsorship opportunities, please contact us at events@sae.org.