

Move with SAE Mobilus®

Technical Resource Platform



Newly-added

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

SAE Solutions

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Webinar Series

November 15 2023 | 11 a.m. EST

Meet the Expert: Jon M. Quigley & Amol Gulve

Log in for a LIVE interview to learn about Jon and Amol's book that was released March 2023 titled "Modernizing Product Development Processes: Guide for Engineers." This book provides a foundation to focus on giving engineers, entrepreneurs, and innovators a guide to developing products with a new approach instead of a traditional product development cycle.

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

[View the Past Guest Speaker Collection](#)

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Ongoing Learning Opportunities

[SAE Mobilus Spotlight](#)

December 19, 2023 | 9 a.m. EST

Discover what's new in under 30 minutes.

Discover the latest titles in Safety in Electric Vehicles

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 [61]

- [New and Newly Retreaded Tire Appearance](#)
- [Missile and Rocket Applications: Hose Assemblies, Flexible Metal, High Pressure and High Temperature](#)
- [Aircraft Tires Service Overload Capability](#)
- [Brass, Naval, Bars and Rods, 60.5Cu - 38.5Zn - 0.75Sn, Hard Temper \(H04\)](#)
- [Steel Bars, Forgings, Mechanical Tubing, and Forging Stock Aircraft-Quality 0.65Cr - 0.70Ni - 0.25Mo \(0.38 - 0.43C\) \(8740 Modified\)](#)
- [Iron-Nickel Alloy, Bars, Forgings, and Rings and Stock for Rings, Forgings, and Heading 42Fe - 37.5Ni - 14Co - 4.8 \(Cb + Ta\)\(Nb + Ta\) - 1.6Ti Solution Heat Treated, Short-Time Precipitation Hardenable Multiple Melted, High Temperature, Low Expansion](#)

[View All](#)



Ground Vehicle Standards

Ground Vehicle Standards [18]

- [J1939 Digital Annex DBC](#)
- [J1939-73 Digital Annex DBC](#)
- [Communication Between Plug-in Vehicles and Customers](#)

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Technical Papers

Technical Papers [166]

- [NOx emission characteristics of active pre-chamber jet ignition engine with ammonia hydrogen blending fuel](#)
- [Online Identification of Vehicle Driving Conditions Using Machine-Learned Clusters](#)
- [The Influence of Cooling Air-Path Restrictions on Fuel Consumption of a Series Hybrid Electric Off-Road Tracked Vehicle](#)
- [Analysis of Real-World Preignition Data Using Neural Networks](#)

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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.

- [Weld Fatigue Assessment of Rail Track Maintenance Machinery: Regulatory Compliance and Practical Insights](#)

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Journal Articles

Journal Articles [28]

- [Impact Level of Selected Fuel Mixtures on the Natural Environment](#)
- [Experimental Study of High-Pressure Reacting and Non-reacting Sprays for Various Gasoline Blends](#)
- [Closest In-Path Vehicle Detection and Recognition Algorithm Based on Camera and Millimeter-Wave Radar Fusion](#)
- [Active Vibration Control of Electric Drive System in Electric Vehicles Based on Active Disturbance Rejection Current Compensation under Impact Conditions](#)

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EDGE Research Reports

EDGE Research Reports [3]

- [The Adoption of Digital Twins in Integrated Vehicle Health Management](#)
- [Decarbonization Routes for Global Road Mobility and Regional Challenges](#)
- [The Path to Safe Machine Learning for Automotive Applications](#)

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Professional Development

[Vehicle Architecture for Hybrid, Electric, Automated, and Shared Vehicle Design C2206](#)

This course enables participants to fully comprehend vehicle architectural/configurational design requirements to enable efficient structural design, effective packaging of required components, and efficient vehicle performance for shared and autonomous operation. The importance of integrating these design requirements with specific vehicle user needs and expectations will be emphasized.

[Lean More](#)

[The Nature of Automated Vehicle Safety: Will SAE Level 5 Ever Be Achieved? C1950](#)

In this course, several topics have been assembled to provide the participant an outlook on the nature of automated vehicle safety and as a group, we will attempt to answer the question as to whether an automated vehicle at Level 5 can ever be achieved.

Short breakout exercises are available to be worked out at the end of each section. These exercises will be performed in groups ranging from 3 to 5 participants per group. The exercises answer important questions or tackle important issues on the topic in question.

[Lean More](#)



Book Spotlight



[Modernizing Product Development Processes: Guide for Engineers](#)

by Jon M. Quigley, Amol Gulve

Using the fundamental pillars of this book, the authors demonstrate how to bridge the gap in today's product development cycle to improve "time to market" needs in a fast-paced environment.

In addition, the authors prepare engineers to scale up production to meet customer demands in a dynamic environment by demonstrating how to establish strategies and road maps with a stage gate approach focused on harnessing creativity to build concepts/technologies in early phases.

[Read It!](#)



Events

[Department of Defense Maintenance Symposium](#)

December 18-21, 2023 | San Diego CA

The Symposium is the premier forum for the exchange of ideas from the greatest maintenance and logistics minds in the country as they discuss the pacing national security threats to the sustainment enterprise.

[Learn More](#)

[Brake Colloquium & Exhibition – 41st Annual](#)

November 12-15, 2023 | San Antonio TX

Experts from the industry, research institutions and academia convene to share their development and case studies in every critical aspect of braking for ICE, EV including ADAS high levels automated vehicle systems.

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Membership

SAE Membership and Community Engagement Information

Enjoy access to discounted technical resources, career advancement tools, networking opportunities and more as an SAE Member and Volunteer. (Not a member? [Join Us!](#))

Here are the latest happenings and benefits:

- SAE is looking for volunteers for our Student Textbook Application Reviewer Committee and for industry Experts to join our SAE Speaker Series, if interested, view the [opportunities below](#).

- During November, SAE Books and SAE Membership are teaming up to give 50% off (10% with membership plus an additional 40% off) off most SAE Books. To redeem this offer, contact SAE Customer Service at 1-877-606-7323 (US) or 1-724-776-4970 (International Orders) and use the Promo code: SAE40

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