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The following is a summary of all publications added to the SAE Mobilus technical resource platform in December 2022. Click below and the SAE Mobilus search results for the content type selected will populate.

**SAE Solutions**

- Aerospace Standards (24)
- Aerospace Material Specifications (9)
- Ground Vehicle Standards (17)
- Technical Papers (135)
- Journal Articles (37)
- EDGE Research Reports (3)
- Books (2)
- Magazine Articles (63)

**Additional SAE Solutions**

- Move with SAE Mobilus Webinar Series
- Professional Development
- Events
- Membership & Community Engagement
- SAE MobilityRxiv®

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January 18, 2023 | 11 a.m. EDT


Log in for a LIVE interview to learn more about:

- the S-18 Aircraft & Systems Development
- the Safety Assessment Committee
- the Twin Pillars of Aviation: ARP4754 & ARP4761

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Aerospace Standards and Aerospace Materials Specifications [33]

- Aerospace Series - Certificate of Conformity Requirements
- SLEEVING, IDENTIFICATION, HEAT SHRINKABLE, 125 °C AND 135 °C, POLYOLEFIN, FLEXIBLE, CROSSLINKED
- Micropitting of Bearings and Gears in Aviation
- Nickel Alloy, Brazing Filler Metal 94Ni - 3.5Si - 1.8B 1800 °F (982 °C) Solidus, 1950 °F (1066 °C) Liquidus
- Nickel Alloy, Corrosion- and Heat-Resistant, Wire 74Ni - 15.5Cr - 8.0Fe Annealed
- Steel, Corrosion-Resistant, Welding Wire 16.4Cr - 4.8Ni - 0.22Cb(Nb) - 3.6Cu
Ground Vehicle Standards [17]

- OBD Traceability Matrix
- Voltage Regulation and Limits
- Wireless Power Transfer for Heavy-Duty Electric Vehicles

Technical Papers [135]

- Optimization of Machining Parameters in Turning of Hastelloy C-276 by Considering Machinability and Chip Morphology Characteristics
- Fighter Aircraft Cabin Temperature Control by Variable Time-Delay in Loop with Control Input Normalization
- The Implementation of Automotive Ethernet Based General Inter-Process Communication of Smart Cockpit
- Development of Detailed Model and Simplified Model of Lithium-Ion Battery Module under Mechanical Abuse

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.

- Continuous Transition Transmission – Preliminary Tests

Journal Articles [37]

- Investigation of Water Droplet Size Distribution in Conventional and Sustainable Aviation Turbine Fuels
- Improving the Engine Lubrication and Friction with Spherical Dimples of Partial Textures Optimized on Crankpin Bearing Surface
- Drive Right: Autonomous Vehicle Education through an Integrated Simulation Platform
- Co-Simulation Platform for Modeling and Evaluating Connected and Automated Vehicles and Human Behavior in Mixed Traffic

EDGE Research Reports [3]

- Electric Vehicle Recharge Time, Reliability, and Interoperability
- Automated Vehicles and Infrastructure Enablers: Electrification
- The Role of Graphene in Achieving e-Mobility in Aerospace Applications

Professional Development
Live Online

This course will provide common requirements for applying appropriate measurements system analysis tools.

Book Spotlight

**Finite Element Analysis for Design Engineers**

Paul M. Kurowski

Finite Element Analysis for Design Engineers serves as a guide for FEA as a design tool and addresses the specific needs of design.

**The Arrival of the Electric Car**

Chris Johnston & Ed Sobey

This book is a comprehensive, easy-to-understand overview of the passenger EV universe including guides for buying and owning an electric car.
**Aerotech**

March 14-16, 2023 | Fort Worth, TX

Join SAE at AeroTech to learn about industry endeavors and successes in sustainability, safety and security, automation, connectivity, smart manufacturing, digital transformation, additive manufacturing, materials, sustainment, supply chain, and much more!

**Noise and Vibration Conference and Exhibition**

May 15-18, 2023 | Grand Rapids, MI

Join SAE and Noise-Con in NVC to learn the latest scientific discoveries and technological innovations that address noise and vibration challenges.

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