



Newly-added

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

SAE Solutions

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Webinar Series

December 21, 2022 | 11 a.m. EDT

Meet the Expert: Johnny Doo, President of International Vehicle Research, Inc.
Log in for a **LIVE** interview to learn more about:

- Innovative Flight Vehicle and eVTOL technologies
- His Contributions to SAE Edge Research Reports
- His Latest Published Title

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Ongoing Learning Opportunities

SAE Mobilus Spotlight

Join us for a customized on-demand SAE Mobilus training session hosted by SAE Onboarding & Implementation Specialist, Wendy Ogletree-Robinson on **December 27, 2022 or at your convenience!**

DISCOVER:

- What's New in Under 30 Minutes
- The Best Practices on Staying Updated on Trending Technologies
- The Latest in Accident Reconstruction

Vote on Future SAE Mobilus Spotlight Topics

Are there topics you would like to see featured in the SAE Spotlight sessions? [Let us know!](#)

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Aerospace Standards & Aerospace Material Specifications

Aerospace Standards and Aerospace Materials Specifications [69]

- [Identification Marking Methods](#)
- [FITTING, ELBOW, 90°, WELD RING](#)
- [Achieving Cleanliness Standards for Aircraft Hydraulic Systems During Manufacture](#)
- [Steel, Mechanical Tubing 0.95Cr - 0.20Mo \(0.38 - 0.43C\) \(SAE 4140\)](#)
- [Brass, Seamless, Tubing 85Cu - 15Zn Annealed \(O61\)](#)
- [Fluid, Reference for Testing Polyol Ester \(and Diester\) Resistant Material](#)

Top 2022 Downloaded Aerospace Material Specifications

- [J1939 Digital Annex](#)
- [Application Layer - Diagnostics](#)
- [Data Link Layer](#)
- [J1979-DA, Digital Annex of E/E Diagnostic Test Modes](#)
- [Vehicle Application Layer](#)

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Ground Vehicle Standards

Ground Vehicle Standards [20]

- [Naming Methodology for Driving Automation Systems](#)
- [A Recommended Method of Analytically Determining the Competence of Hydraulic Telescopic Cantilevered Crane Booms](#)
- [Low-Speed Continuous Slip Durability Test](#)

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Technical Papers

Technical Papers [43]

- [A Review on Immersion Cooling for Power Electronics](#)
- [Investigation on Thermophysical Characterization of Nano Composite Phase Change Materials for Battery Cooling in EV](#)
- [Experimental Analysis of Control Strategies on Air Supply System for Proton Exchange Membrane Fuel Cells](#)

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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.

- [Revisiting motion sickness models based on SVC theory considering motion perception](#)

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Journal Articles

Journal Articles [17]

- [Understanding Conductive Layer Deposits: Test Method Development for Lubricant Performance Testing for Hybrid and Electric Vehicle Applications-SAE International Journal of Electrified Vehicles](#)
- [3D-Printed Antenna Design Using Graphene Filament and Copper Tape for High-Tech Air Components-SAE International Journal of Aerospace](#)
- [Prediction and Estimation of Propeller Drag-SAE International Journal of Aerospace](#)

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EDGE Research Reports

EDGE Research Reports [3]

- [Automated Vehicles, the Driving Brain, and Artificial Intelligence](#)
- [Final Disposition of Electric Vehicle Batteries](#)
- [The Use of eVTOL Aircraft for Military Applications: Last-mile Transport and Logistics](#)

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Professional Development

[AS123100 Supplemental Quality Management System Requirements PD532104](#)

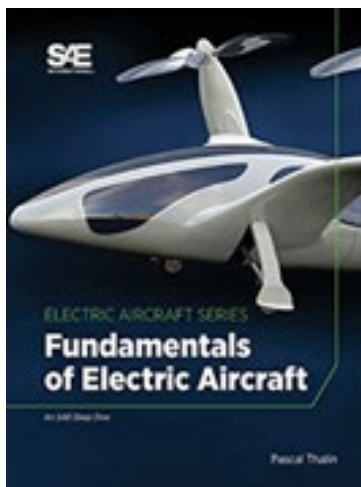
On Demand

This course addresses the requirements of AS13100, including how the standard simplifies and harmonizes the aerospace engine manufacturer requirements to its shared supply chain.

[Lean More](#)



Book Spotlight



Fundamentals of Electric Aircraft

Pascal Thalin, Ravi Rajamani, Jean-Charles Mare, and Sven Taubert

Fundamentals of Electric Aircraft was developed to explain what the electric aircraft stands for by offering an objective view of what can be expected from the giant strides in innovative architectures and technologies enabling aircraft electrification.

[Read It!](#)

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ADVISANCE

Electric Flight Technology: The Unfolding of a New Future



Ravi Rajamani

Electric Flight Technology: The Unfolding of a New Future

Ravi Rajamani

The Electric Flight Technology: Unfolding of a New Future reviews the history of this field, discusses the key underlying technologies, and describes how the future for these technologies will likely unfold, distinguishing between all-electric (AE) and hybrid-electric (HE) architectures.

[Read It!](#)



Events

Accident Reconstruction Digital Summit 2023

March 1-2, 2023 | Online

This free online event will serve as your single source destination for the newest and most critical technological advances in accident reconstruction.

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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!

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Membership

SAE Membership and Community Engagement Information

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- [Chat with the Expert: Diversity in the Automotive Industry](#), December 8 & 9 in Connexion+ (participate by logging in with your [mySAE account](#)).
- [SAE Mentor Program](#): Seeking Mentors with technical interests of Vehicles and Performance, and Tests & Testing.

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