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Webinar Series

May 17, 2023 | 11 a.m. EST

Meet the Author: Plato Pathrose, Author of “[ADAS & Automated Driving – A Practical Approach to Verification & Validation](#)”

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June 27, 2023 | 9 a.m. EST

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Aerospace Standards & Aerospace Material Specifications

Aerospace Standards and Aerospace Materials Specifications [30]

- [Transport Airplane Fuel System Lightning Protection](#)
- [Level of Repair Analysis \(LORA\)](#)
- [Aircraft Electrical Power Systems Modeling and Simulation Definitions](#)
- [Peening Media, General Requirements](#)
- [O-Ring, Preformed, Straight Thread Tube Fitting Boss, Type I Hydraulic \(-65 to 160 °F\)](#)
- [Acrylonitrile Butadiene \(NBR\) Rubber Aromatic Fuel Resistant 75 - 85](#)

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Ground Vehicle Standards

Ground Vehicle Standards [10]

- [Power Cylinder Oil Consumption: Methods of Measurements](#)
- [Road Vehicles - Friction Materials - Elastic Properties Measurements](#)
- [Design Review Based on Failure Modes \(DRBFM\)](#)

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Technical Papers

Technical Papers [824]

- [Effect of Standard Tuning Parameters on Mixture Homogeneity and Combustion Characteristics in a Hydrogen Direct Injection Engine](#)
- [Analysis of Boosting Architectures for Hydrogen Internal Combustion Engines](#)

- [Characterization of High-Tumble Flow Effects on Early Injection for a Lean-Burn Gasoline Engine](#)

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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.

- [Full-range fatigue life prediction of metallic materials using Tanaka-Mura-Wu model](#)

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Journal Articles

Journal Articles [25]

- [Numerical Analysis of Armored Fighting Vehicle Escape Hatch Subjected to Mine Blast Loading Using Coupled Eulerian-Lagrangian Technique](#)
- [A Review of Ultra-lean and Stratified Charged Combustion in Natural Gas Spark Ignition Engines](#)
- [Effect of Fast Charging on Lithium-Ion Batteries: A Review](#)

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EDGE Research Reports

EDGE Research Reports [2]

- [Decarbonized Fuel Options for Long-haul Commercial Vehicles](#)
- [The Role of Graphene in Achieving e-Mobility in Automotive Applications](#)

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Professional Development

[Fuel Cells for Transportation C1868](#)

This three-day course provides a comprehensive and up to date introduction to fuel cells for use in automotive engineering applications.

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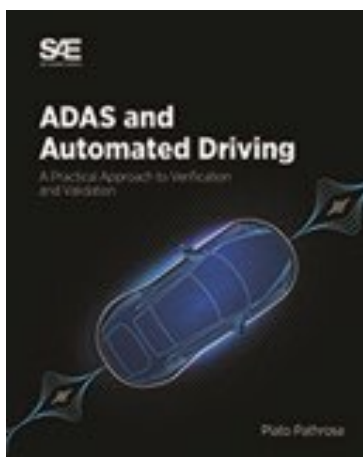
[Energy Systems Integration: Evolution in Electricity Grids PD772326](#)

This course gives insight into the fundamentals of power systems, from direct to alternating current, active to reactive power, and more.

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Book Spotlight



[ADAS and Automated Driving: A Practical Approach to Verification and Validation](#)

By Plato Pathrose

ADAS and Automated Driving: A Practical Approach to Verification and Validation focuses on how automated driving systems (ADS) can be developed from concept to a product on the market for widescale public use.

[Read It!](#)



Events

[Battery Recycling & Reuse Summit, An SAE Sustainability Event](#)

June 6, 2023 | Online

The inaugural Battery Recycling & Reuse Summit, an SAE Sustainability Event, will convene mining, energy, mobility, and policy leaders to discuss the latest news, updates, challenges, and opportunities surrounding battery reuse and recycling.

[Learn More](#)

[International Conference on Icing of Aircraft, Engines, And Structures](#)

June 20-22, 2023 | Vienna, Austria

Gather with industry's icing experts at the unique event focused on in-flight aircraft, engine, and structure icing, ice prevention, and ice detection as well as ground deicing.

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