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**SAE Solutions**

- **Aerospace Standards** (51)
- **Aerospace Material Specifications** (15)
- **Ground Vehicle Standards** (16)
- **Technical Papers** (858)
- **Journal Articles** (32)
- **EDGE Research Reports** (4)
- **Book**
- **Magazine Articles** (93)

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

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SAE Mobilus administrator. To sign-up and receive all future monthly Newsletters, register HERE.

Webinar Series

April 20, 2022 | 11 a.m. EDT

Meet an Expert: SAE Office of Sustainable Energy, featuring Frank Menchaca, SAE Chief Growth Officer, and Michael Paras, Strategic Business Development.

SAE has opened an Office of Sustainable Energy with the goal of assisting the mobility industry to getting to a zero-impact vehicle. This LIVE interview will address the critical issues of manufacturing, material sourcing, end of life, infrastructure, and the idea of developing a set of standards on “levels of vehicle sustainability”.

New to the Movement? Learn More

View the Past Guest Speaker Collection

Save My Seat

Aerospace Standards & Aerospace Material Specifications

- Batch Processing Requirements for the Reuse of Used Powder in Additive Manufacturing of Aerospace Parts - AMS7031
- Effects of Extremely Cold Temperature on Landing Gear Operation – AIR6411
- Recommended Design and Test Requirements for Hydraulic Flow Regulators - ARP7212
- Unmanned Systems (UxS) Control Segment (UCS) Architecture: UCS Architecture Model - AS6518B
- Recommended Practice: Development Planning for Design of Additive Manufactured Components in an Aircraft System – ARP7042
- Methods for Determining the Effect of Liquid Disinfectants on Seats in Transport Aircraft - ARP8463

View All
Ground Vehicle Standards

- Definitions for Terms Related to Automated Driving Systems Reference Architecture – J3131_202203
- On-Board System Requirements for LTE-V2X V2V Safety Communications - J3161/1_202203
- Class "A" Vehicle Glazing Shade Bands - J100_202203
- Classification and Nomenclature Towing Winch for Skidders and Crawler Tractors - J1014_202203

Technical Papers

- Analyzing the Impact of Electric Vehicles on Power Losses and Voltage Profile in Power Distribution Systems
- Electric Vehicles vs e-Fuelled ICE Vehicles: Comparison of potentials for Life Cycle CO₂ Emission Reduction
- An Input Linearized Powertrain Model for the Optimal Control of Hybrid Electric Vehicles

NOW Available: Explore the 2022 WCX™ World Congress Experience Technical Papers

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.

- Featured Title: CAE Modeling and Automation on High Performance Computing
Supplementing Future Occupant Safety Assessments with Severe Intersection Crashes Selected Using the SAFER Human Body Model

Crash Pulse Prediction Using Regression Algorithm with Gradient Descent Optimization Method for Integrated Safety Systems

Effects of Seatback Recline and Belt Restraint Type on PMHS Responses and Injuries in Rear-Facing Frontal Impacts

Automated Vehicles and Infrastructure Enablers

Human-like Decision-making and Control for Automated Driving

Internal Boundaries of Metal Additive Manufacturing: Future Process Selection

Electric Road Systems for Dynamic Charging

Introduction to Hybrid Electric Vehicle Systems | PD291809

This course will provide engineers that need a thorough and detailed introduction to HEV technology the opportunity to learn this technology and the focus on how systems are designed, rationale for the design, power flow, CAN PID's, and more. Most of the fundamental information can be applied to electric, plug-in, extended range, and fuel cell systems.
Mobility and transportation mean different things to people, even to those who work in various aspects of the ecosystem - from the movement of people or goods to the development of the infrastructure that enables mobility.

This book seeks to capture the varied perspectives as a collection of diverse views on the future of mobility, to provide a clearer view on the broad base of possibility and opportunity across this interconnected system.

Powering the Future of EV

Attend SAE’s FREE inaugural event dedicated to electric vehicle charging infrastructure.

The Electric Vehicle Charging Infrastructure Conference, an SAE Sustainability Event, seeks to bring together vehicle manufacturers, energy companies, and regional and federal government agencies to move forward considerations and infrastructure needed to improve the mass adoption of electric vehicles.
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 Mentor Program** – Become an SAE Mentor and share your experience and industry knowledge with the next generation of SAE Members.

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