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**SAE Solutions**

- SAE Aerospace Standards (59)
- SAE Aerospace Material Specifications (29)
- SAE Ground Vehicle Standards (16)
- SAE Technical Papers (556)
- NEW 2021 Top Downloaded Aerospace Standards
- SAE Journal Articles (47)
- SAE EDGE Research Reports (3)
- SAE Books
- SAE Magazine Articles (127)

**Additional SAE Solutions:**

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Webinar Series

Wednesday, October, 20, 2021 | 11 a.m. EST

Meet an Expert – Urban Air Mobility, Featuring Anna Dietrich, Director of Industry & Strategy at Community Air Mobility Initiative (CAMI)

New to the Movement? Learn More

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Aerospace Standards & Aerospace Material Specifications

- **ARP8616** - Balancing Machine Technology - Proper Use and Performance of Response Checks
- **AS7766** – Terms Used in Aerospace Metals Specifications
- **SAE1007** – Standard Practice for Habitability
- **ARP9114B** – Direct Ship Guidance for Aerospace Companies
- **AMSSTD595A A2** – Colors Used in Government Procurement

**NEW** 2021 Top Downloaded Aerospace Standards and Aerospace Materials Specifications

- **AMS2750F** - Pyrometry
- **AMS5643V** - Steel, Corrosion-Resistant, Bars, Wire, Forgings, Mechanical Tubing, and Rings 16Cr-4.0Ni-0.30Cb (Cb) - 4.0Cu Solution Heat Treated, Precipitation Hardenable
- **AMS4928W** - Titanium Alloy Bars, Wire, Forgings, Rings, and Drawn Shapes 6Al - 4V Annealed
- **AS145R** - Identification Marking Methods
- **AS9100D-Quality Management Systems - Requirements for Aviation, Space, and Defense Organizations

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Ground Vehicle Standards

- J1939/1_202109 - On-Highway Equipment Control and Communication Network
- J323_202109 - Test Method for Determining Cold Cracking of Flexible Plastic Materials
- J1939/21_202109 - Data Link Layer
- J2603_202109 - Recommended Practice for Powered Gas Brake Control Systems

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Technical Papers

- 2021-01-5089 - Localization Method for Autonomous Vehicles with Sensor Fusion Using Extended and Unscented Kalman Filters
- 2021-28-0117 - Smart Control Logic of Battery Cooling System for Electric Vehicles (EVs)
- 2021-28-0118 - Numerical study of Thermal management of lithium-ion battery pack using liquid cooling
- 2021-26-0133 - Active Thermal Management of High-Power LED Array
- 2021-26-0144 - Hurdles and Solutions towards Improving the Charging Experience

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Journal Articles

- 13-02-02-0010 - Advantages of Simultaneous In Situ Multispecies Detection for Portable Emission Measurement Applications - Open Access!
- 13-02-02-0014 - Application of Topology Optimization to Reduce Automotive Exhaust Emissions
- 13-02-02-0011 - Willans Line-Based Equivalent Consumption Minimization Strategy for Charge-Sustaining Hybrid Electric Vehicle
02-14-03-0033 - Sensitivity Analysis of Reinforcement Learning-Based Hybrid Electric Vehicle Powertrain Control

13-03-01-0002 - Fuel Cell Electric Vehicles: A Platinum and Other Raw Material Perspective Based on Vehicle Design and Technology Data from a Major Car Manufacturer

EDGE Research Reports

- Unsettled Topics Concerning Airport Cybersecurity Standards and Regulation
- Unsettled Issues Regarding Power Options for Decarbonized Commercial Vehicles
- Unsettled Legal Issues Facing Data in Autonomous, Connected, Electric, and Shared Vehicles

ARP4761: Safety Assessment Process for Civil Airborne Systems | C2019

This course will cover the guidelines and methods for performing safety assessments called out in the ARP4761, reviewing recommended practices associated with compliance and aircraft certification requirements.
Book Spotlight

*The Design of Aircraft Landing Gear*
written by R. Kyle Schmidt, PE

Designed to guide the reader through the key principles of landing system design and to provide additional references when available. A landmark work in the industry, and a must-read for any engineer interested in updating specific skills and students preparing for an exciting career.

Events

- **Thermal Management Systems Digital Summit**
  October 12-14, 2021 | Online & On-Demand

- **Business of Automated Mobility Forum | BAM: Flight Path to UAM/AAM**
  November 2-3, 2021 | ONLINE

Membership

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