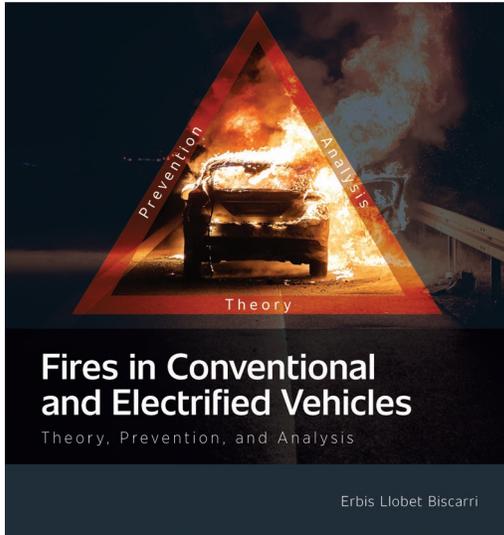


Fires in Conventional and Electrified Vehicles: Theory, Prevention, and Analysis

Erbis Llobet Biscarri



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In the ever-evolving landscape of automotive technology, fire safety remains a critical concern. From the era of steam-powered vehicles to today's cutting-edge electric and hybrid models, understanding the risks and preventive measures for automotive fires is essential for protecting lives and assets.

In *Fires in Conventional and Electrified Vehicles*, Erbis Biscarri, a seasoned expert with extensive experience in both automotive equipment manufacturing and major car manufacturers, presents a definitive guide on the subject. This book provides a thorough exploration of the physical phenomena leading to vehicle fires, offering in-depth analysis methods and prevention strategies tailored to both traditional internal combustion engines and the latest hybrid and electric vehicles.

Organized into three key sections—Theory, Prevention, and Analysis—the book delves into the fundamental concepts of fire initiation, sustenance, and propagation, covering a wide range of vehicle systems. It examines safety risks and effective prevention strategies using industry best practices and advanced technologies. Additionally, the analysis section provides real-world case studies and expert insights into investigating and understanding automotive fires.

Whether you're an automotive engineer, fire safety professional, forensic consultant, or fleet manager, Biscarri's comprehensive guide is an invaluable resource. Equip yourself with the knowledge to navigate the complexities of automotive fire safety and contribute to a safer, more resilient automotive industry.

"This book will be a valuable resource for experts in vehicle fire analysis."
Aubert George, Expert in vehicle fire analysis and prevention, France.

Meet the Author

Erbis Llobet Biscarri

Erbis Llobet Biscarri boasts a distinguished four-decade career in technical and engineering domains, offering expertise in automotive and electronic design, quality issues resolution, electromagnetic compatibility, and fire prevention and analysis. Biscarri holds a master's degree in manufacturing systems engineering from the University of Michigan and degrees in industrial administration and electronics engineering from the University of São Paulo.

Biscarri has held leadership positions at Ford, Visteon, Johnson Controls, and PSA Peugeot Citroën, overseeing R&D teams, managing product launches, and contributing to technical advancements. His experience includes electroelectronics architecture, hardware development, and incident analysis, demonstrating his versatility and technical expertise. He also contributed to SAE congresses in Brazil by holding a position on the technical congress committee and serving as a Porto Alegre section board director. He contributes as a forensic engineering expert in Brazil's judicial system and as an SAE instructor, focusing on automotive and agricultural machine fire theory, prevention, and analysis.

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