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Transportation Electrification Course Series Package

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Transportation Electrification Course Series

Understand concepts related to

- electric motors,
- fuel cells,
- electric drive trains, and
- electric vehicle batteries, with a focus on lithium-ion batteries.

Ideal for technical professionals at organizations in the automotive industry as well as academic students in engineering programs, especially those interested in pursuing careers involving automotive and battery technology.

To view all Transportation Electrification courses included, visit: http://bit.ly/1g4dqaj

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Transportation Courses Quick Facts

Develop the skills and knowledge needed to succeed:

24 courses that focus on various transportation technologies

Delivered via IEEE *Xplore*, with its mobile-friendly design and powerful search features

Printable individual CEU or PDH certificates upon the successful completion of a course

Professionally developed multimedia courses

Introductory, Intermediate, or Advanced course levels

Perpetual access options are available

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- Cloud Computing
- Fundamentals for Technical Professionals
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Courses included in this package:

Battery Cluster

Introduction to Batteries

Battery Design Principles

Lithium-ion Batteries

Modeling Lithium-ion Batteries

Next Generation Batteries

Electric Drive Trains

Transportation Electrification: Applications of Electric Drive Trains

Transportation Electrification: Introduction to Power Electronics in Electric Drive Trains

Transportation Electrification: Power Semiconductors Used in Electric Drive Trains

Transportation Electrification: Electric Machines in Electric Drive Trains

Wireless Power Transfer

Introduction to wireless power transfer

Methods of study of WPT systems

Coil design and analysis

Power electronics topologies for WPT

Other issues of WPT

Fuel Cells

Fuel cell principals

Fuel cell power characteristics, efficiency and life span

Fuel cell system components

Fuel cell applications

Introduction to hydrogen economy and fuel cell economic aspects

Electric Motors

Introduction to Electric Machines

DC Motors

AC Motors: Induction Motors

Permanent Magnet Motors

Switched Reluctance Motors: Types, Design and Control

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