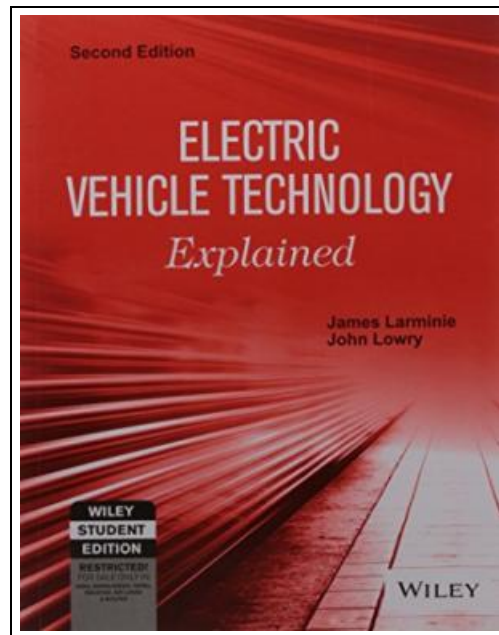


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ELECTRIC VEHICLE TECHNOLOGY EXPLAINED, SECOND EDITION



Wiley India Pvt. Ltd, 2015. Softcover. Book Condition: New. 2nd edition. This Second Edition of Electric Vehicle Technology Explained provides a timely update on the fast-moving technology of electric vehicles and electric transportation, a hot topic within both the automotive and electrical engineering communities. Fully updated throughout, Electric Vehicle Technology Explained takes a unique approach to the subject matter by presenting an engineering based treatment of the design and evaluation of electric motor scooters, cars, buses and trains, presenting clear and comprehensive coverage of the major aspects of electric vehicle development. Contents: About the Author Preface Acknowledgments Abbreviations Symbols 1 Introduction 1.1 A Brief History 1.2 Electric Vehicles and the Environment 1.3 Usage Patterns for Electric Road Vehicles 2 Types of Electric Vehicles -- EV Architecture 2.1 Battery Electric Vehicles 2.2 The IC Engine/Electric Hybrid Vehicle 2.3 Fuelled EVs 2.4 EVs using Supply Lines 2.5 EVs which use Flywheels or Super capacitors 2.6 Solar-Powered Vehicles 2.7 Vehicles using Linear Motors 2.8 EVs for the Future 3 Batteries, Flywheels and Super capacitors 3.1 Introduction 3.2 Battery Parameters 3.3 Lead Acid Batteries 3.4 Nickel-Based Batteries 3.5 Sodium-Based Batteries 3.6 Lithium Batteries 3.7 Metal--Air Batteries 3.8 Super capacitors and Flywheels 3.9 Battery Charging 3.10 The Designer` s Choice of Battery 3.11 Use of Batteries in Hybrid Vehicles 3.12 Battery Modelling 3.13 In Conclusion 4 Electricity Supply 4.1 Normal Existing Domestic and Industrial Electricity Supply 4.2 Infrastructure Needed for Charging Electric Vehicles 4.3 Electricity Supply Rails 4.4 Inductive Power Transfer for Moving Vehicles 4.5 Battery Swapping 5 Fuel Cells 5.1 Fuel Cells -- A Real Option? 5.2 Hydrogen Fuel Cells -- Basic Principles 5.3 Fuel Cell Thermodynamics -- An Introduction 5.4 Connecting Cells in Series -- The Bipolar Plate 5.5 Water Management in the PEMFC 5.6 Thermal Management of the PEMFC 5.7 A Complete Fuel...



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