



Advanced Electric Drive Vehicles

By Ali Emadi

Taylor & Francis Inc. Hardback. Book Condition: new. BRAND NEW, Advanced Electric Drive Vehicles, Ali Emadi, Electrification is an evolving paradigm shift in the transportation industry toward more efficient, higher performance, safer, smarter, and more reliable vehicles. There is in fact a clear trend to move from internal combustion engines (ICEs) to more integrated electrified powertrains. Providing a detailed overview of this growing area, Advanced Electric Drive Vehicles begins with an introduction to the automotive industry, an explanation of the need for electrification, and a presentation of the fundamentals of conventional vehicles and ICEs. It then proceeds to address the major components of electrified vehicles-i.e., power electronic converters, electric machines, electric motor controllers, and energy storage systems. This comprehensive work: * Covers more electric vehicles (MEVs), hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), range-extended electric vehicles (REEVs), and all-electric vehicles (EVs) including battery electric vehicles (BEVs) and fuel cell vehicles (FCVs) * Describes the electrification technologies applied to nonpropulsion loads, such as power steering and air-conditioning systems * Discusses hybrid battery/ultra-capacitor energy storage systems, as well as 48-V electrification and belt-driven starter generator systems * Considers vehicle-to-grid (V2G) interface and electrical infrastructure issues, energy management, and optimization in...



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