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Titolo	Geology / Geological Society of America
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Descrizione fisica	fascicoli
Lingua di pubblicazione	Inglese
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Livello bibliografico	Periodico

2. Record Nr. UNINA9911061837303321

Autore	Pode Ramchandra
Titolo	Decarbonization of Road Transportation : The Electric Vehicle (EV) Transition / / by Ramchandra Pode, Boucar Diouf
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-032-11388-1
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (439 pages)
Collana	Green Energy and Technology, , 1865-3537
Disciplina	629.2
Soggetti	Automotive engineering Renewable energy sources Electric batteries Materials Transportation Production management Transportation engineering Traffic engineering Automotive Engineering Renewable Energy Batteries Transportation Economics Production Transportation Technology and Traffic Engineering
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Livello bibliografico	Monografia
Nota di contenuto	Electric vehicles in the history of road transportation -- Decarbonizing road transportation -- The electric vehicle transition -- Electric vehicle transition policies and strategies -- Transition to zero-emission vehicles: Case studies of Norway and China -- Technology and subsidies in the depreciation of electric vehicles -- Modelling the used vehicle market share in the electric vehicle transition -- The second-hand market in the electric vehicle transition -- Is the grid ready for the electric vehicle transition?- Way forward: A full transition to electric vehicles.
Sommario/riassunto	This book describes the transition from gasoline-powered vehicles to electric vehicles (EVs), which is the most effective strategy for decarbonizing land transportation. This shift can significantly reduce greenhouse gas emissions and dependence on fossil fuels, paving the way for a sustainable transport system. Increased EV adoption has the potential to lower greenhouse gas (GHG) emissions substantially, with projections suggesting that emissions from fuel production lead to “net zero” by 2040 through energy-sector decarbonization. This book explores recent advancements in EV adoption across various regions, which are largely driven by government policies such as subsidies and regulations that make EV ownership more accessible compared to traditional internal combustion engine (ICE) vehicles. Despite these favorable policies, the rate of EV adoption has not met expectations, highlighting a gap between policy intent and environmental impact. This book examines critical issues such as rapid depreciation and technological evolution. It emphasizes the interplay between advancements in EV technology—particularly lithium-ion batteries and artificial intelligence—and their implications for sustainable development. The text stresses importance of achieving zero-carbon emissions and fostering sustainable practices across scientific, technological, and economic dimensions. Ultimately, this book serves as a vital resource for understanding how effective transportation technologies can contribute to a cleaner environment and sustainable future. This comprehensive book is tailored for undergraduate and postgraduate engineering students, as well as professionals and researchers in environmental science, electrical engineering, transportation, and renewable energy sectors.