

The Trouble With Lithium Ev World

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energy demand is continuously rising mainly due to population growth and rapid economic development there are substantial worries about the environmental effects of fossil fuels in addition to the uncertainties surrounding the long term sustainability of non renewable energy sources environmental safety concerns are driving an increase in the demand for renewable energy production numerous efforts have been paid to harvest energy from ambient sources e g solar wind thermal hydro mechanical etc this book discusses the application of artificial intelligence ai for energy harvesting the implementation of metaheuristics and al algorithms in the field of energy harvesting system will provide a quick start for the researchers and engineers who are new to this area energy harvesting technologies are growing very speedily hence it is necessary to summarize recent advances in energy harvesting methodology over the recent years a considerable amount of effort has been devoted both in industry and academia towards the performance modelling and evaluation of energy harvesting technologies this book is the result of a collaborative effort among different researchers in the fields of energy harvesting and artificial intelligence technical topics discussed in the book include hybrid algorithms mechanical to electrical energy conversion swarm intelligence mppt technologies polymer nanocomposites

with robust economic fundamentals and significant export potential ghana is set to play a greater role in the economy of west africa as well as on the continent the country expects to benefit from its young population stable political environment and membership in the africa continental free trade area providing a point of entry for foreign and domestic investors to the country s various economic sectors

this book is the first to fully explore the short and long term impact of the global electric car rollout on the supply of raw materials the world has gone from zero to almost 1.5 billion fossil fuel cars in circulation today contributing significantly to the global climate crisis and necessitating a total transition to electric vehicles in the coming decades this book responds to key questions surrounding the increase of electric car usage such as will there be sufficient resources available to permanently supply a future world population of ten billion with electric cars what is the risk that the supply of essential raw materials will be hampered by geopolitical problems or that mining capacity cannot be quickly scaled up how does the switch from fossil fuel vehicles to electric cars impact the recycling of scrap cars it contains detailed information about the material composition of electric and fossil fuel cars in relation to stocks and relative scarcity of corresponding materials in the earth s crust and estimates the ultimate annual consumption of metals based on predicted population growth this book is an important tool for decision makers in national ministries and international bodies highlighting how to adopt a global long term raw materials policy to protect the interests of future generations and global fairness it provides necessary forecasting insight to industry leaders and specialists policymakers and researchers

as the first english language book on taiwan s relations with latin america this book examines the major issues and theoretical debates on taiwan s activities in latin america and its relations with the us and china latin america has become a crucial frontline for taiwan today more than at any time since the end of wwii taiwan s future as an independent state hinges on the balance of power between the united states and china this book provides the most detailed and sophisticated analysis of contemporary taiwan s relations with latin america and offers insight into the us china rivalry in the backyard of the united states by bringing together a group of scholars from taiwan us and latin america this book examines taiwan latin america relations on various issues amid the intensifying the us china strategic competition such as public diplomacy trade investment energy and cultural exchanges more than ever before an understanding of taiwan s relations with latin america and the great power rivalry in the western hemisphere is essential for students and policy makers alike the book will be of great interest to university students at all levels as well as specialists on international relations foreign policy as well as asian and latin american studies

the 19th cirp conference on life cycle engineering continues a strong tradition of scientific meetings in the areas of sustainability and engineering within the community of the international academy for production engineering cirp the focus of

the conference is to review and discuss the current developments technology improvements and future research directions that will allow engineers to help create green businesses and industries that are both socially responsible and economically successful the symposium covers a variety of relevant topics within life cycle engineering including businesses and organizations case studies end of life management life cycle design machine tool technologies for sustainability manufacturing processes manufacturing systems methods and tools for sustainability social sustainability and supply chain management

states corporations and other actors worldwide have committed to measures aimed at bringing down global emissions to net zero by the year 2060 or earlier while the need for a clean energy transition is clear incoherently designed transition programs can pose complex environmental social and governance risks including legal liability and protracted disputes at the same time the rush for minerals needed to manufacture clean energy technologies raises fundamental questions most crucially how to ensure the exploration and development of energy transition minerals in a manner that does not exacerbate resource conflicts resource nationalism human rights violations protectionism energy insecurity social exclusions and inequity especially in conflict affected and high risk regions by studying the legal and regulatory systems of africa asia europe australasia and north and south america through the themes of sovereignty security and solidarity net zero and natural resources law provides an in depth discussion of tools and techniques for addressing the legal and contract risks relating to the clean energy transition this book offers a comprehensive and authoritative account of the nature scope and guiding principles of natural resources law and policy in a net zero era consideration is given to the integrated resource governance roadmap that is needed to improve coherence and coordination in the design financing and implementation of energy transition programs across the entire natural resource value chain

this book surveys state of the art research on and developments in lithium ion batteries for hybrid and electric vehicles it summarizes their features in terms of performance cost service life management charging facilities and safety vehicle electrification is now commonly accepted as a means of reducing fossil fuels consumption and air pollution at present every electric vehicle on the road is powered by a lithium ion battery currently batteries based on lithium ion technology are ranked first in terms of performance reliability and safety though other systems e g metal air lithium sulphur solid state and aluminium ion are now being investigated the lithium ion system is likely to dominate for at least the next decade which is why several manufacturers e g toyota nissan and tesla are chiefly focusing on this technology providing comprehensive information on lithium ion batteries the book includes contributions by the world s leading experts on li ion batteries and vehicles

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