

Indian Electric Vehicle Hybrid Vehicle Market In India

Global Strategies of Electric Vehicles: UsIndependently Published

The International Conference on ICT for Digital, Smart, and Sustainable Development (ICIDSSD'20) aims to provide an annual platform for the researchers, academicians, and professionals from across the world. ICIDSSD'20, held at Jamia Hamdard, New Delhi, India, is the second international conference of this series of conferences to be held annually. The conference majorly focuses on the recent developments in the areas relating to Information and Communication Technologies and contributing to Sustainable Development. ICIDSSD'20 has attracted research papers pertaining to an array of exciting research areas. The selected papers cover a wide range of topics including but not limited to Sustainable Development, Green Computing, Smart City, Artificial Intelligence, Big Data, Machine Learning, Cloud Computing, IoT, ANN, Cyber Security, and Data Science. Papers have primarily been judged on originality, presentation, relevance, and quality of work. Papers that clearly demonstrate results have been preferred. We thank our esteemed authors for having shown confidence in us and entrusting us with the publication of their research papers. The success of the conference would not have been possible without the submission of their quality research works. We thank the members of the International Scientific Advisory Committee, Technical Program Committee and members of all the other committees for their advice, guidance, and efforts. Also, we are grateful to our technical partners and sponsors, viz. HNF, EAI, ISTE, AICTE, IIC, CSI, IETE, Department of Higher Education, MHRD and DST for sponsorship and assistance.

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Global economic growth, recently fuelled by Asia's emerging economies, has greatly accelerated the accumulation of greenhouse gases in the atmosphere and boosted demand for scarce natural resources, including energy, food and mineral raw materials. These developments are pushing the planet close to its ecological boundaries. Transforming the world economy towards sustainability, while ensuring decent levels of resource use for all global citizens, is the greatest challenge of our time. This book explores how innovation systems need to be adapted to successfully confront these challenges. The first chapter introduces the concept of sustainability-oriented innovation systems which highlights the systematic differences between systems that have developed along current resource-intensive technological trajectories and those that address the impending environmental mega-problems. The subsequent articles present case studies of sustainability-oriented innovations in a number of policy areas, including energy efficiency, electric mobility and generation of renewable energy, in China and India. These case studies confirm the specificities of innovation systems geared towards a green techno-economic paradigm. This book was originally published as a special issue of Innovation and Development.

The quest for energy independence and rising environmental concerns are key drivers in the growing popularity of electric vehicles or EVs - electric and plug-in hybrid cars. Studies indicate that for 90% of the Americans who use their cars to get to work every day, the daily commute distance is less than 50 km - or 30 mi - and, on the average, the commuter car remains parked about 22 h per day. The EVs have in common the batteries, which provide storage capability that can be effectively harnessed when the vehicles are integrated into the grid. The entire concept of using the EVs as a distributed energy resource - load and resource - is known as

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the vehicle-to-grid or V2G concept. Though I have more than two decades of rendezvous with energy and diversified energy sources to quench the thirst of humanity, my specific interest in electric vehicle started in 2014 when I joined Black & Veatch and got associated with prestigious project of Tesla as strategist and adopt the success model of US market for Asia. Tesla Motors manufactures the Tesla Model S, the all-electric car that won the Motor Trend 2013 Car of the Year award. While developing the car, Tesla launched a program to aggressively deploy high-power, fast-charging stations -- "Superchargers" -- along major travel corridors throughout the United States. Tesla awarded Black & Veatch a contract to design and construct pilot sites in the Supercharger network. The Tesla Supercharger U.S. build-out is the largest project to date for the Black & Veatch team. Services include engineering, site assessment, and permitting and construction services for Tesla's charging stations. "It's one thing to build one Supercharger site, but it's a totally different thing to build 100 at a time, or have 40 or 50 in construction at any given time. Black & Veatch brought an ability to be able to expand rapidly, bring on the resources necessary and also manage the construction of a complex project like that - all concurrently." Kevin Kassekert, Director, Supercharger Deployment and Energy Efficiency, Tesla Motors, Inc. It was my absolute privilege to be part of the team of Black & Veatch, who is now a market leader in the design, construction and integration of complex electric vehicle (EV) and hydrogen/fuel cell vehicle (FCV) infrastructure. My journey started with a Big Bang when B&V Chairman Steve Edward pioneered the Chairman's Challenge for new and fresh ideas from offices across the global with the help of an online contest. Absolute delight was my feeling when my first idea on a strategic model of business capture (I call it Shark Strategy) won the most voted idea of the challenge out of

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hundreds of ideas submitted by most of the top brains of the 10000 odd employees of the 100 year old firm. It was just the beginning as in the next Chairman's Challenge, I collaborated with others in Kansas HQ to put forth another idea on use of Drone for Industrial Application and Project Management & Monitoring of complex nature like EPC work of intercontinental pipelines or Electric Transmission Lines across the mountains or dense forest like Amazon basin. To my absolute surprise, our team won the top award of the chairman's challenge and each team members were gifted a real Drone costing not less than 15000 INR at that time, but unfortunately it could not be shipped to Mumbai for me as Drones for private applications were banned by government of India. My all other team members sent me pictures of drones awarded to them. Great Memories of Kansas City Baseball match cheering Royals after intensive strategy meetings on future of the company and American Supercharger Infrastructures (Read Tesla, Volta and other projects). This book is my attempt to help generation next understand and support clean vehicle adoption, advance clean transportation and sustainability.

This book focuses on the latest emerging technologies in electric vehicles (EV), and their economic and environmental impact. The topics covered include different types of EV such as hybrid electrical vehicle (HEV), battery electrical vehicle (BEV), fuel cell electrical vehicle (FCEV), plug-in hybrid electrical vehicle (PHEV). Theoretical background and practical examples of conventional electrical machines, advanced electrical machines, battery energy sources, on-board charging and off-board charging techniques, and optimization methods are presented here. This book can be useful for students, researchers and practitioners interested in different problems and challenges associated with electric vehicles.

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Electric and hybrid vehicles are now the present, not the future. This straightforward and highly illustrated full colour textbook is endorsed by the Institute of the Motor Industry, and introduces the subject for further education and undergraduate students as well as technicians. This new edition includes a new section on diagnostics and completely updated case studies. It covers the different types of electric vehicle, costs and emissions, and the charging infrastructure, before moving on to explain how hybrid and electric vehicles work. A chapter on electrical technology introduces learners to subjects such as batteries, control systems and charging which are then covered in more detail within their own chapters. The book also covers the maintenance and repair procedures of these vehicles, including fault finding, servicing, repair and first-responder information. Clear diagrams, photos and flow charts outline the charging infrastructure, how EV technology works, and how to repair and maintain hybrid and electric vehicles. Optional IMI online eLearning materials enable students to study the subject further and test their knowledge. It is particularly suitable for students studying towards IMI Level 2 Award in Hybrid Electric Vehicle Operation and Maintenance, IMI Level 3 Award in Hybrid Electric Vehicle Repair and Replacement, IMI Accreditation, C&G and other EV/Hybrid courses.

This book is aimed to bring out the understanding of brand positioning of two wheelers in the minds of customers i.e., whether the customers have brand awareness, brand image, brand identity, brand knowledge about two wheelers which lead them to satisfaction. In turn, their brand preferences towards specific two wheelers among popular brands such as Hero, Honda, TVS, Suzuki, Bajaj and Yamaha were associated with brand positioning.

This book presents the ways in which three key issues of the modern world –

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transformation, digitalisation and sustainability – may be combined for the greater good and highlights which activities may be designed to integrate these three directly linked paths. It is an experience-derived and evidence-based analysis of how sustainable development impacts the transformation of the economy and how the business environment influences economic transformation in the light of the sustainable development principles. The book addresses the current challenges and shows how the economy can be transformed further in an organic way that meets the needs of society and the environment, through the use of digital technologies. The multidisciplinary approach to sustainability transformation is one of the core strengths of the book, as it emphasises the need for a holistic approach to the functioning of sustainable development ideas at the micro- and macro-levels. The authors present a fresh perspective, particularly around the regulations stimulating the sustainable development of enterprises, tax systems, and the allocation of capital. Moreover, the book brings together and makes available the results of the latest research on the subject, using a vast amount of primary evidence and both quantitative and qualitative methodology. The authors' insights go beyond the obvious effects of economic transformation and call attention to ways in which smart technology and digitalisation may help to achieve the Sustainable Development Goals. The book

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is directed first and foremost towards academics, researchers and students, but also professionals, who would like to expand their knowledge of sustainable development from a scientific perspective.

A comprehensive text, combining all important concepts and topics of Electrical Machines and featuring exhaustive simulation models based on MATLAB/Simulink Electrical Machine Fundamentals with Numerical Simulation using MATLAB/Simulink provides readers with a basic understanding of all key concepts related to electrical machines (including working principles, equivalent circuit, and analysis). It elaborates the fundamentals and offers numerical problems for students to work through. Uniquely, this text includes simulation models of every type of machine described in the book, enabling students to design and analyse machines on their own. Unlike other books on the subject, this book meets all the needs of students in electrical machine courses. It balances analytical treatment, physical explanation, and hands-on examples and models with a range of difficulty levels. The authors present complex ideas in simple, easy-to-understand language, allowing students in all engineering disciplines to build a solid foundation in the principles of electrical machines. This book: Includes clear elaboration of fundamental concepts in the area of electrical machines, using simple language for optimal and enhanced learning Provides

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wide coverage of topics, aligning with the electrical machines syllabi of most international universities. Contains extensive numerical problems and offers MATLAB/Simulink simulation models for the covered machine types. Describes MATLAB/Simulink modelling procedure and introduces the modelling environment to novices. Covers magnetic circuits, transformers, rotating machines, DC machines, electric vehicle motors, multiphase machine concept, winding design and details, finite element analysis, and more. *Electrical Machine Fundamentals with Numerical Simulation using MATLAB/Simulink* is a well-balanced textbook perfect for undergraduate students in all engineering majors. Additionally, its comprehensive treatment of electrical machines makes it suitable as a reference for researchers in the field.

This book constitutes the proceedings of the First International Conference on Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22–23 March 2019. The proceedings of the ICETE are published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-the-art research, and are

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useful to postgraduate students, researchers, academics and industry engineers working in the respective fields. Volume 2 presents papers on the theme “Advances in Decision Sciences, Image Processing, Security and Computer Vision – International Conference on Emerging Trends in Engineering (ICETE)”. It includes state-of-the-art technical contributions in the areas of electronics and communication engineering and electrical and electronics engineering, discussing the latest sustainable developments in fields such as signal processing and communications; GNSS and VLSI; microwaves and antennas; signal, speech and image processing; power systems; and power electronics. This book presents selected articles from INDIA SMART GRID WEEK (ISGW 2017), which is the third edition of the Conference cum Exhibition on Smart Grids and Smart Cities, organized by India Smart Grid Forum from 07-10 March 2017 at Manekshaw Centre, Dhaula Kuan, New Delhi, India. ISGF is a public private partnership initiative of the Ministry of Power, Govt. of India with the mandate of accelerating smart grid deployments across the country. This book gives current scenario updates of Indian power sector business. It also highlights various disruptive technologies for power sector business.

This book is a comprehensive examination of the dynamics of India’s energy security policy in the domestic and international context. Over the past decade

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and a half, energy security has been a constant driver of India's foreign policy. Successive Indian governments have emphasized it as a major concern, next only to food security. The long-term satisfaction of India's energy security needs calls for a fresh and multi-pronged approach. This is imperative in the light of the recent dynamics of India's foreign policy and the challenges that India is facing in its quest for energy security, mainly in the context of diversification of sources abroad and shift to alternative sources in a carbon-controlled environment. This is further intensified in the context of the complex and competitive strategic rivalry between India and China in the Indo-Pacific region, as India looks outward and expands its outreach to meet its pressing energy security challenges. The book presents an in-depth analysis of all such domestic and foreign policy challenges and measures to meet India's fast-growing energy demand in a competitive geopolitical environment.

Urban areas are integral to India's growth and development, accounting for around two-thirds of the country's GDP. Analysing India's rapidly expanding process of urbanisation, the book identifies the key challenges and opportunities and proposes suitable managerial and policy reforms. It addresses critical issues and puts forth suggestions for better planning financing alternatives and, most importantly, better governance for improved service delivery and affordable

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housing. Divided thematically into three sections, the volume takes into account the important facets of urbanisation, including the state of urban infrastructure and planning in India with due attention to sustainability, the role of finance in urban development and its dependence on governance, and methods to generate good governance in public institutions, and the impact on housing and climate change. The 11 essays included in this book have been written by leading analysts and practitioners, who propose critical reforms and policy interventions. The volume will be indispensable to students and scholars of urban economics, development studies, urban planning, business practitioners, policymakers as well as the informed general reader.

India is a diverse country with consumers who are demanding and aspirational. The business environment is complex and intensely competitive. Being a successful manager today requires deep market knowledge and a sound grasp of concepts and techniques with which to develop and execute successful strategies. This book is designed to equip readers with updated knowledge and advanced tools and techniques to create effective strategies to win customers. The concepts are explained lucidly and illustrated with several live case studies and teaches a step-by-step method of the process of developing market segments and executing effective strategies.

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Electric Vehicle Battery Systems provides operational theory and design guidance for engineers and technicians working to design and develop efficient electric vehicle (EV) power sources. As Zero Emission Vehicles become a requirement in more areas of the world, the technology required to design and maintain their complex battery systems is needed not only by the vehicle designers, but by those who will provide recharging and maintenance services, as well as utility infrastructure providers. Includes fuel cell and hybrid vehicle applications. Written with cost and efficiency foremost in mind, Electric Vehicle Battery Systems offers essential details on failure mode analysis of VRLA, NiMH battery systems, the fast-charging of electric vehicle battery systems based on Pb-acid, NiMH, Li-ion technologies, and much more. Key coverage includes issues that can affect electric vehicle performance, such as total battery capacity, battery charging and discharging, and battery temperature constraints. The author also explores electric vehicle performance, battery testing (15 core performance tests provided), lithium-ion batteries, fuel cells and hybrid vehicles. In order to make a practical electric vehicle, a thorough understanding of the operation of a set of batteries in a pack is necessary. Expertly written and researched, Electric Vehicle Battery Systems will prove invaluable to automotive engineers, electronics and integrated circuit design engineers, and anyone whose interests involve electric vehicles and battery systems. * Addresses cost and efficiency as key elements in the design process * Provides comprehensive coverage of the theory, operation, and configuration of complex battery systems,

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including Pb-acid, NiMH, and Li-ion technologies * Provides comprehensive coverage of the theory, operation, and configuration of complex battery systems, including Pb-acid, NiMH, and Li-ion technologies

This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Applications of solar energy have been expanding in recent years across the world. This monograph details such far-reaching and important applications which have the potential for large impact on various segments of the society. It focuses solar energy

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technologies for various applications such as generation of electric power, heating, energy storage, etc. This volume will be a useful guide for researchers, academics and scientists.

This is a monograph presented at United Service Institution of India

This book covers recent trends in the field of devices, wireless communication and networking. It gathers selected papers presented at the International Conference on Communication, Devices and Networking (ICCDN 2019), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India, on 9–10 December 2019. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on how to address real-world problems in the areas of electronics, communication, devices and networking.

India's energy system has evolved around domestic coal, sizable imports of oil and LNG, moderate contribution of hydro power, declining and yet sizable use of traditional biomass as cooking fuel by rural households and growing attention to modern renewable, nuclear and energy efficient technologies. India's per-capita GHG emissions are below the global average and far below those in the developed countries. Notwithstanding the inherited fossil based energy system and high economic growth expectations, India voluntarily committed to reduce GHG emissions intensity of the

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economy by 20-25 per cent from 2005 to 2020. This book details inventory of energy and emissions at national and sector levels. It maps firm and locale level energy use and emissions and their impacts such as on the urban air pollution. The future energy and emissions trends are analyzed following scenarios analysis using integrated assessment modelling framework that aligns India's national development goals with global climate change actions. The analysis shows that the global 2°C temperature stabilization target shall require fundamental transformation of India's energy system, both on demand and supply sides. The book demonstrates the necessity and validity of following a long-term development-centric perspective; even while delineating near-term energy and emissions policies, programs and targets such as those needed to delineate the Intended Nationally Determined Contributions (INDCs). The book, while illustrating the best practice modeling, scenarios development and policy assessment for India, provides insights into the mode and means of navigating the energy and emissions policy landscape for India. The complexity of the policymaking notwithstanding, the book is intended to demystify the methods and means for delineating the policies. The book, we hope demonstrates the need to use best practice methodologies for national assessments and also the existence of the scientific capacity in the country to carry out such assessments. This book presents an integrated approach to sustainably fulfilling energy requirements, considering various energy-usage sectors and applicable technologies in those sectors.

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It discusses smart cities, focusing on the design of urban transport systems and sources of energy for mobility. It also shares thoughts on individual consumption for ensuring the sustainability of energy resources and technologies for emission reductions for both mobility and stationary applications. For the latter, it examines case studies related to energy consumption in the manufacturing sector as well as domestic energy requirements. In addition it explores various distribution and policy aspects related to the power sector and sources of energy such as coal and biomass. This book will serve as a valuable resource for researchers, practitioners, and policymakers alike. Economics is a social science concerned mainly with description and analysis of the production, distribution, and consumption of goods and services. Beyond the various theories and models, however, economics has close relationship with day to day life. This book reviews the economic journey of India over the last seventy years, and seeks to stimulate the readers' thinking on some major issues and potentialities facing the Indian economy. Five main themes flow through the book – India's potential to be the World's third largest economic power by 2030, the challenges of socio-economic equity that India faces, the several opportunities that India has in that journey, the critical role of governance, leadership, management and administration, and the importance of mindset changes to power India's future economic growth. A special focus is laid on the role of government policies and projects in socio-economic development. The book sensitises the readers, including college students in general, and students of

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economics in particular, to the happenings around us which have significant economic import. The book makes all through its seventy chapters several suggestions to power India's growth as a global economic superpower, on a plank of socioeconomic equity. This book serves as an expansive thought primer and focussed execution guide for an economically independent and resurgent India.

Heavy-Duty Electric Vehicles: From Concept to Reality presents a step-by-step design and development guide for heavy-duty electric vehicles. It also offers practical insights based on the commercial application of an electric city bus. Heavy-duty electric vehicle design is challenging due to a lack of clear understanding of the government policies, R&D directions and uncertainty around the performance of various subsystems in an electric powertrain. Therefore, this book discusses key technical aspects of motors, power electronics, batteries and vehicle control systems, and outlines the system integration strategies necessary for design and safe operation of electric vehicles in practice. This comprehensive book serves as a guide to engineers and decision makers involved in electric vehicle development programs and assists them in finding the suitable electric powertrain solution for a given heavy-duty vehicle application. Offers an overview of various standards and regulations that guide the electric vehicle design process and a comprehensive discussion on various government policies and incentive schemes propelling the growth of heavy electric vehicle markets across the world; Provides a comparative evaluation of different electric drivetrain concepts and a step-by-

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step power calculation guide for heavy-duty electric powertrain; Explains material selection and manufacturing methods for next generation batteries; Discusses key elements and design rules for creating a robust high voltage energy storage system, appropriate packaging and its support systems including charging network; Includes a concise description of torque mapping, power management and fault handling strategies for inverter drive and control systems; Features case studies to better understand complex topics like charging system requirements and vehicle control system diagnostics.

The sole purpose of this book “All shades of Green” is to sensitize and inform people about the threats that our planet is facing in the recent times and provide solutions that can be implemented by individuals or organizations. Many interesting real life case studies have also been discussed to show the prompt remedies that can be adopted in cleansing the environment and for the betterment of our community. With climate-related risks on the rise and impacts being felt around the globe, there is a pressing need to take action. The book, as a whole, aims to create a shift from linear to circular economy and encourages readers to adopt a sustainable and environment friendly lifestyle. Author of the book Aarav Seth is a 17 year old environment enthusiast, this book is a “not for profit” initiative and available free of charge on Google Play Books. This book presents the papers from the Innovations in Fuel Economy and Sustainable Road Transport conference, held in Pune, India, 8-9 November, 2011. Papers examine

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advances in powertrain, alternative fuels, lightweight vehicles, electric vehicles and hybrid vehicles. An international assembly of senior industry representatives provide insight into research and technological advances in low carbon technology sustainability for road transport, helping towards achieving stringent emissions standards and continual improvements in fuel economy efficiency, all in an expanding Indian market. These technical papers from industry and academia discuss the developments and research of leading organisations. Discusses maximising powertrain performance for a low carbon agenda Provides readers with an understanding of the latest developments in alternative fuels Examines the future landscape for the implementation and development of electric vehicles

Is it the appearance? The brand name? Performance? Or is it something much deeper? In this book, Dr. Babar Zamaan identifies the factors that influence prospective premium car buyers. A must read for marketing students, and professionals in the automobile industry.

The contributors explore the rapid growth of Indian multinationals and provide valuable insights into the patterns and trends of their outward investments and the factors that led to their emergence in the global FDI market. They also look at their continuously evolving strategies in the global economy.

It provides a comprehensive coverage of electric machines and drives for electric and hybrid vehicles, including both electric propulsion and hybrid propulsion. The

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corresponding motor drives for electric propulsion range from the existing types, namely the DC, induction, permanent magnet brushless and switched reluctance motor drives, to the advanced types, namely the doubly salient permanent magnet, magnetic-gear, vernier permanent magnet and advanced magnetless motor drives. The corresponding machine systems for hybrid propulsion cover the existing types, namely the integrated starter generator and planetary-gear electric variable transmission systems, and the advanced types, namely the double-rotor electric variable transmission and magnetic-gear electric variable transmission systems. Emphasis is given to the design criteria, performance analyses and application examples or potentials of various motor drives and machine systems.

Asian transportation systems and services, as well as their usage, are fraught with challenges. This handbook therefore seeks to examine the possible solutions to the problems faced by the region. It illustrates the history of transportation development in Asia and provides a comprehensive overview of research on urban and intercity transport. Presenting an extensive literature review and detailed summaries of the major findings and methodologies, this book also offers suggestions for future research activities from top-level international researchers. Written from an interdisciplinary perspective, the topics covered include: Transportation systems across Asia; Traffic accidents; Air pollution; Land use and logistics; Transport governance. Considering the population and economic development scale, as well as the diverse cultures of Asia,

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the Routledge Handbook of Transport in Asia will be a valuable resource for students and scholars of transportation, Asian development and Asian Studies in general.

Symbiosis International is a Deemed University Established under Section 3 of UGC Act, 1956, and awarded category I by UGC and re-accredited by NAAC with grade A. Symbiosis Entrance Test (SET) offers its law courses at its four colleges as SLS Pune, Noida, Hyderabad, Nagpur. The Institute provides a learner centric ecosystem embedded with a strong value system. The approach enables the students to hone their skills and explore their true potential. Symbiosis will conduct three entrance tests namely Symbiosis Entrance Test (SET) / Symbiosis Law Admission Test (SLAT) / SIT Engineering Entrance Exam (SIT EEE) for admission to its undergraduate programmes in Management, Law, Engineering, Mass Communication, Economics, Liberal Arts, Computer Studies & Culinary Arts.

The aim of this new book series (Diatoms: Biology and Applications) is to provide a comprehensive and reliable source of information on diatom biology and applications. The first book of the series, Diatoms Fundamentals & Applications, is wide ranging, starting with the contributions of amateurs and the beauty of diatoms, to details of how their shells are made, how they bend light to their advantage and ours, and major aspects of their biochemistry (photosynthesis and iron metabolism). The book then delves into the ecology of diatoms living in a wide range of habitats, and look at those few that can kill or harm us. The book concludes with a wide range of applications of

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diatoms, in forensics, manufacturing, medicine, biofuel and agriculture. The contributors are leading international experts on diatoms. This book is for a wide audience researchers, academics, students, and teachers of biology and related disciplines, written to both act as an introduction to diatoms and to present some of the most advanced research on them.

Electric Vehicles: Prospects and Challenges looks at recent design methodologies and technological advancements in electric vehicles and the integration of electric vehicles in the smart grid environment, comprehensively covering the fundamentals, theory and design, recent developments and technical issues involved with electric vehicles.

Considering the prospects, challenges and policy status of specific regions and vehicle deployment, the global case study references make this book useful for academics and researchers in all engineering and sustainable transport areas. Presents a systematic and integrated reference on the essentials of theory and design of electric vehicle technologies Provides a comprehensive look at the research and development involved in the use of electric vehicle technologies Includes global case studies from leading EV regions, including Nordic and European countries China and India

The automotive industry is still one of the world's largest manufacturing sectors, but it suffers from being very technology-focused as well as being relatively short-term focused. There is little emphasis within the industry and its consultancy and analyst supply network on the broader social and economic impacts of automobility and of the

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sector that provides it. The Global Automotive Industry addresses this need and is a first port of call for any academic, official or consultant wanting an overview of the state of the industry. An international team of specialist researchers, both from academia and business, review and analyse the key issues that make vehicle manufacturing still the world's premier manufacturing sector, closely tied in with the fortunes of both established and newly emerging economies. In doing so, it covers issues related to manufacturing, both established practices as well as new developments; issues relating to distribution, marketing and retail, vehicle technologies and regulatory trends; and, crucially, labour practices and the people who build cars. In all this it explains both how the current situation arose and also likely future trajectories both in terms of social and regulatory trends, as the technological, marketing and labour practice responses to those, leading in many cases to the development of new business models. Key features

- Provides a global overview of the automotive industry, covering its current state and considering future challenges
- Contains contributions from international specialists in the automotive sector
- Presents current research and sets this in an historical and broader industry context
- Covers threats to the industry, including globalization, economic and environmental sustainability

The Global Automotive Industry is a must-have reference for researchers and practitioners in the automotive industry and is an excellent source of information for business schools, governments, and graduate and undergraduate students in automotive engineering.

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This concise book has been designed for easy reading and to meet the critical skill requirements of students in the branches of Automobile Engineering and Mechanical Engineering and Mechanical Engineering. The contents are presented in 22 lucid chapters. The book deals with the fundamentals, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). It comprehensively presents vehicle performance, configuration, and control strategy for different electric and hybrid electric vehicles. This course book is intended for use as a Textbook and as a primary Reference book by colleges and technical universities offering core and elective subjects like Electric and Hybrid Vehicles and New Generation Vehicles.

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