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power quality pq is receiving more and more attention from consumers distribution system operators transmission system operators and other entities related to electrical power systems as pq problems have direct implications for business productivity causing high economic losses the research and development monitoring technologies and power electronics solutions that ensure the pq of the power systems are matters of utmost importance this book is a collection of high quality papers published in the power electronics and power quality special issue of the journal energies it reflects on the latest investigations and the new trends in this field

in recent years there has been growing interest in industrial systems especially in robotic manipulators and

mobile robot systems as the cost of robots goes down and become more compact the number of industrial applications of robotic systems increases moreover there is need to design industrial systems with intelligence autonomous decision making capabilities and self diagnosing properties intelligent industrial systems modeling automation and adaptive behavior analyzes current trends in industrial systems design such as intelligent industrial and mobile robotics complex electromechanical systems fault diagnosis and avoidance of critical conditions optimization and adaptive behavior this book discusses examples from major areas of research for engineers and researchers providing an extensive background on robotics and industrial systems with intelligence autonomy and adaptive behavior giving emphasis to industrial systems design

professor emanuel uses clear presentation to compare and facilitate understanding of two seminal standards the ieee std 1459 and the din 40110 2 2002 11 through critical analysis of the most important and recent theories and review of basic concepts a highly accessible guide to the essence of the standards is presented key features explains the physical mechanism of energy flow under different conditions single and three phase sinusoidal and nonsinusoidal balanced and unbalanced systems starts at an elementary level and becomes more complex with six core chapters and six appendices to clarify the mathematical aspects discusses and recommends power definitions that played a significant historical role in paving the road for the two standards provides a number of original unsolved problems at the end of each chapter introduces a new nonactive power the randomness power power definitions and the physical mechanism of power flow is useful for electrical engineers and consultants involved in energy and power quality it is also helpful to engineers dealing with energy flow quantification design and manufacturing of metering instrumentation consultants working with regulations related to renewable energy courses and the smart grid and electric utility planning and operation engineers dealing with energy bill structure the text is also relevant to university researchers professors and advanced students in power systems power quality and energy related courses

proceedings of the fisita 2012 world automotive congress are selected from nearly 2 000 papers submitted to the 34th fisita world automotive congress which is held by society of automotive engineers of china sae china and the international federation of automotive engineering societies fisita this proceedings focus on solutions for sustainable mobility in all areas of passenger car truck and bus transportation volume 5 advanced transmission system and driveline focuses on clutch system and controls gear systems and driveline advanced transmission system transmission control system above all researchers professional engineers and graduates in fields of automotive engineering mechanical engineering and electronic engineering will benefit from this book sae china is a national academic organization composed of enterprises and professionals who focus on research design and education in the fields of automotive and related industries fisita is the umbrella organization for the national automotive societies in 37 countries around the world it was founded in paris in 1948 with the purpose of bringing engineers from around the world together in a spirit of cooperation to share ideas and advance the technological development of the automobile

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energy storage is becoming the enabler of the low carbon energy transition and is increasingly attracting the attention of business professionals policymakers and academics these stakeholders need to understand the wide range of storage technologies the applications they can serve in and the methods data and tools to evaluate their current and future economic potential this book combines rigorous methods with rich datasets to provide objective and transparent evidence on the cost reduction potentials and the value of energy storage across low carbon electricity systems and clean transportation it enables readers to understand the key storage technologies the services they can provide and how they can be assessed for economic viability

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