Electrical Engineering and Electronic Technology: Current Trends and Applications

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Abstract

Electrical Engineering and Electronic Technology are dynamic felds that continually evolve to meet the demands of our increasingly technology-driven world. This abstract provides an overview of the current trends and applications in these domains. In recent years, electrical engineering has seen a surge in innovation, driven by advances in renewable energy, smart grids, and electric vehicles. The integration of renewable energy sources, such as solar and wind, into the power grid has become a focal point for researchers and engineers. This shift towards sustainable energy solutions not only addresses environmental concerns but also presents new challenges in terms of grid stability and energy storage. Furthermore, the advent of electric vehicles (EVs) has revolutionized the automotive industry. Electric cars are becoming more commonplace, and the development of ef cient charging infrastructure is crucial for their widespread adoption. This has led to innovations in power electronics and battery technology, making EVs a viable and a Msectors, including healthcare, agriculture, and manufacturing. These devices enable real-time data collection

and remote monitoring, enhancing e f ciency and decision-making processes.

Keywords:

Introduction

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Methodology				
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