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Nota di contenuto	Performance Characteristics of Electric Vehicle Using Different Motor and Battery Combination -- Enhancing condition-based maintenance at a Malaysian chemical company through the use of acoustic emission testing AET -- Development of a Smart Agriculture for Soil Moisture Measurement Level Smart Farming -- Development of a Driver Drowsiness Alert System Under Extreme Lighting -- Development of Wireless Pulse Monitoring System for Hospital Patients -- Integration of Vehicle Safety and Surveillance System using the Internet of Things Concept.
Sommario/riassunto	This book collectively aims to enhance operational efficiency, reduce environmental impact, and drive technological progress across industries. In today's fast-paced and competitive business landscape, industries are grappling with challenges in process optimization, energy efficiency, and transportation. Effective management of these

areas is essential for boosting productivity while minimizing waste and fostering sustainable growth for future business. This collection of research and development projects highlights innovative solutions across various sectors, including electric vehicle performance optimization, smart agriculture, healthcare monitoring, and industrial maintenance. Key focuses include electric vehicle motor and battery technology advancements, driver safety systems, IoT-based vehicle surveillance, and energy-efficient charging solutions. Additionally, cutting-edge applications like Li-Fi for vehicle-to-vehicle data transfer and AI-driven auto-sorting systems demonstrate the integration of modern technology to address real-world challenges.