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## Sommario/riassunto

Electric currents and electromagnetic fields have been applied to biological systems, particularly humans, with both therapeutic and pathological results. Applied Bioelectricity discusses biological responses to electric currents and electromagnetic fields, including medical applications and shock hazards. The book covers fundamental

physical and engineering principles of responses to short-term electrical exposure and emphasizes human reactions, although animal responses to electricity are considered as well. The treatment covers reactions from the just-detectable to the clearly detrimental. An important new chapter discusses standards for human exposure to electromagnetic fields and electric current and demonstrates how these standards have been developed based on the principles treated in earlier chapters. J. Patrick Reilly is a member of the principal staff of the Johns Hopkins University Applied Physics Laboratory and is President of Metatec Associates.

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## Sommario/riassunto

With the advent of advanced technologies in AI, driverless vehicles have  
 elevated curiosity among various sectors of society. The automotive  
 industry is in a technological boom with autonomous vehicle concepts.  
 Autonomous driving is one of the crucial application areas of Artificial  
 Intelligence (AI). Autonomous vehicles are armed with sensors, radars,  
 and cameras. This made driverless technology possible in many parts  
 of the world. In short, our traditional vehicle driving may swing to  
 driverless technology. Many researchers are trying to come out with  
 novel AI algorithms that are capable of handling driverless technology.  
 The current existing algorithms are not able to support and elevate the  
 concept of autonomous vehicles. This addresses the necessity of novel  
 methods and tools focused to design and develop frameworks for  
 autonomous vehicles. There is a great demand for energy-efficient  
 solutions for managing the data collected with the help of sensors.  
 These operations are exclusively focused on non-traditional

programming approaches and depend on machine learning techniques, which are part of AI. There are multiple issues that AI needs to resolve for us to achieve a reliable and safe driverless technology. The purpose of this book is to find effective solutions to make autonomous vehicles a reality, presenting their challenges and endeavors. The major contribution of this book is to provide a bundle of AI solutions for driverless technology that can offer a safe, clean, and more convenient riskless mode of transportation.

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