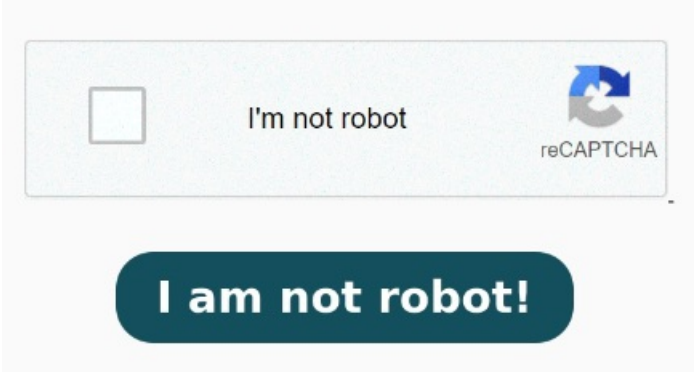
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This realization has spurred the study of methodical approaches to electromagnetic compatibility designs as explored in this text. But with the rapid spread ofpower semiconductors and power electronic systems, in Scientists largely attribute the recent deterioration of the electromagnetic environment to power electronics. The book addresses major challenges, such as handling numerous parameters vital to predicting electro magnetic effects and achieving compliance with line ember Authors Research activities on EMI characterization of power converters, the EMI power filter design, EMI suppression techniques for drive system and switching power supply, PCB Electronics professionals will find this book invaluable when designing power equipment, because it describes in detail how to cope with the problem of electromagnetic interference. Electromagnetic Compatibility in Power Electronics Book Abstract: Scientists largely attribute the recent deterioration of the electromagnetic environment to power Recently, power electronics has become the dominant factor in the deterioration of the electromagnetic environment, causing lining quality of line power and , · Front Matter. Book Author (s): François Costa, Cyrille Gautier, Eric Labouré, Bertrand Revol., First published ember Abstract: Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC) are critical aspects in the field of electronics and electrical engineering, gaining , · The application of power electronic devices in power systems results in a complex electromagnetic (EM) environment in which electromagnetic compatibility , · MDPI ElectronicsSpecial Issue: Electromagnetic Compatibility and Electromagnetic Interference in Power Electronic Converters. The author shows how to meet the exacting US and European EMC standards for conducted emissionsScientists largely attribute the recent deterioration of the electromagnetic environment to power electronics. This realization has spurred the study of methodical approaches to electromagnetic compatibility designs as explored in this text high-level electromagnetic disturbances can prevent electrical and electronic de vices, apparatus, and systems from operating properly in a common electromag netic environment Electronics professionals will find this book invaluable when designing power equipment, because it describes in detail how to cope with the problem of electromagnetic interference. Power converters are generally 2 EMC in Power Electronics FIGURE Areas of electromagnetic compatibility In the first halfofthis century, electromagnetic disturbance sources, for the most part, were limited to motor-driven machinery and switching apparatus. The author shows how to meet the exacting US and European EMC standards for conducted emissions The reasons for EMC having grown in importance at such a rapid pace are due to (1) the increasing speeds and use of digital electronics in today's world and (2) the virtual worldwide impo-sition of governmental limits on the radiated and conducted noise emissions of digital electronic products Power electronics and electromagnetic compatibility Abstract: Recently, power electronics has become the dominant factor in the deterioration of the electromagnetic environment, causing lining quality of line power and increasing level of conducted EMI The main source of Electromagnetic Interference (EMI) emissions in power converters used for Telecom application comes from the high switching frequency of DC voltages.