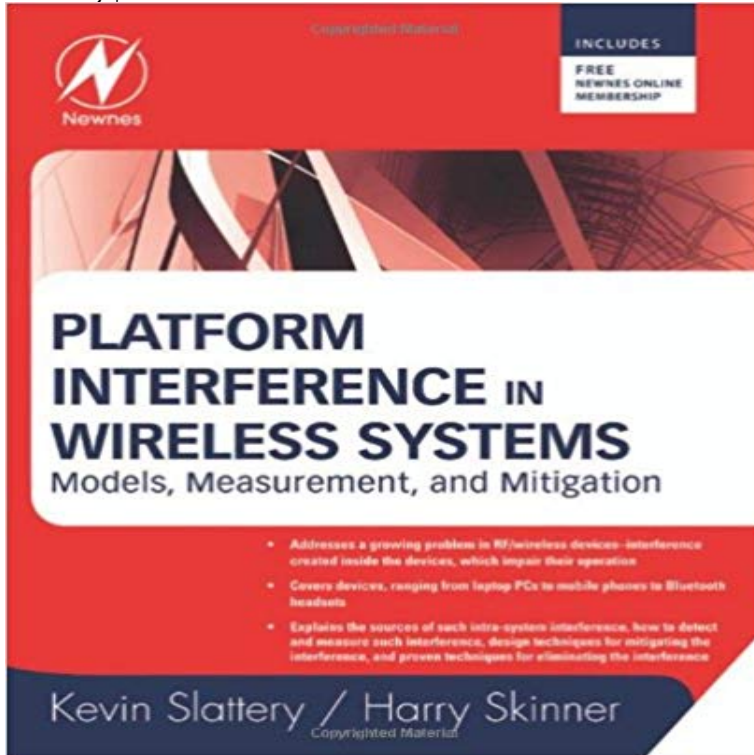


Platform Interference in Wireless Systems: Models, Measurement, and Mitigation



Intra-system EMC problems are becoming increasingly common in mobile devices, ranging from notebook PCs to cell phones, with RF/wireless capabilities. These issues range from minor annoyances to serious glitches which impede the functioning of the device. This book gives a thorough review of electromagnetic theory (including Maxwells equations), discusses possible sources and causes of intra-system interference, shows to use models and analysis to discover potential sources of intra-system EMC in a design, how to use appropriate tests and measurements to detect intra-system EMC problems, and finally extensively discusses measures to mitigate or totally eliminate intra-system EMC problems. With more and more mobile devices incorporating wireless capability (often with multiple wireless systems, such as Bluetooth and WiFi), this book should be part of the reference shelf of every RF/wireless engineer and mobile device designer.

Addresses a growing problem in RF/wireless devices---interference created inside the devices, which impair their operation
Covers devices, ranging from laptop PCs to mobile phones to Bluetooth headsets
*Explains the sources of such intra-system interference, how to detect and measure such interference, design techniques for mitigating the interference, and proven techniques for eliminating the interference

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