

Adaptive RF Front-Ends for Hand-held Applications



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Reviews

This publication will be worth purchasing. It really is written in simple terms instead of difficult to understand. It has been designed in an exceptionally simple way and is particularly only right after I finished reading this ebook in which basically modified me, after the way I believe.

(Prof. Loyce Runolfsson Jr.)

ADAPTIVE RF FRONT-ENDS FOR HAND-HELD APPLICATIONS



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Condition: New. Publisher/Verlag: Springer Netherlands | The RF front-end - antenna combination is a vital part of a mobile phone. This book offers a unique account of adaptive RF front-ends. It includes an analysis on the impact of fluctuating environmental parameters, and a generic protection concept is presented. | The RF front-end - antenna combination is a vital part of a mobile phone because its performance is very relevant to the link quality between hand-set and cellular network base-stations. The RF front-end performance suffers from changes in operating environment, like hand-effects, that are often unpredictable. Adaptive RF Front-Ends for Hand-Held Applications presents an analysis on the impact of fluctuating environmental parameters. In order to overcome undesired behavior two different adaptive control methods are treated that make RF front-ends more resilient: adaptive impedance control, and adaptive power control. Several adaptive impedance control techniques are discussed, using a priori knowledge on matching network properties, in order to simplify robust 2-dimensional control. A generic protection concept is presented, based on adaptive power control, which improves the ruggedness of a power amplifier or preserves its linearity under extremes. It comprises over-voltage, over-temperature, and under-voltage protection. | Symbols. Abbreviations. 1 Introduction. 1.1 Context and trends in wireless Communications. 1.2 Resilience to unpredictably changing environments. 1.3 Improvements by adaptively controlled RF front-ends. 1.4 Aim and scope of this book. 1.5 Book outline. 2 Adaptive RF front-ends. 2.1 Introduction. 2.2 RF front-end functionality. 2.3 Fluctuations in operating conditions. 2.4 Impact of variables. 2.5 Adaptive control theory. 2.6 Identification of variables for detection and correction. 2.7 Conclusions on adaptive RF front-ends. 3 Adaptive impedance control. 3.1 Introduction. 3.2 Mismatch detection method. 3.3 Adaptively controlled PI-networks using differentially controlled capacitors. 3.4 Adaptively controlled L-network using cascaded loops. 3.5 Adaptive series-LC matching network using RF-MEMS. 3.6 Load line adaptation. 3.7 Conclusions on adaptive impedance control. 4 Adaptive...



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