



# **Automatic Gain Control: Techniques and Architectures for RF Receivers (Analog Circuits and Signal Processing)**

*Juan Pablo Alegre Pérez, Santiago Celma, Belén Calvo López*

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This book analyzes automatic gain control (AGC) loop circuits and demonstrates AGC solutions in the environment of wireless receivers, mainly in wireless receivers with stringent constraints in settling-time and wide dynamic range, such as WLAN and Bluetooth receivers. Since feedforward AGCs present great advantages in this context, as an alternative to conventional feedback AGCs, this book includes a detailed study of feedforward AGCs design –at the level of basic AGC cells, as well as the system level, including their main characteristics and performance.



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