



# Modeling & Characterization of Nonlinear RF and Microwave Systems (Electrical Engineering)

*A. L. Walker*

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Chapter titles are ... (1) Introduction ... (2) Review of Nonlinear Analysis, Behavioral Modeling, and Measurement Techniques ... (3) Nonlinear Metrology ... (4) The Multi-Slice Behavioral Model ... (5) Remote Characterization of RF Devices ... (6) Example: A Low-Noise Amplifier Modeled with a Multi-Slice Behavioral Model ... (7) Multi-Slice Behavioral Models of Nonlinear Amplifiers with Memory Employing Vector Intermodulation Measurements ... (8) In-Circuit Filter Tuning Using a Nonlinear Distortion Response from a One-Port Measurement ... (9) Conclusions ... (10) Appendix A: Intermodulation System Phase Measurement Calibration ... (11) Appendix B: Algorithm Details for the Multi-Tone Cancellation System ... (12) Appendix C: MATLAB Code for Magnitude-Only Multi-Slice Model Extraction ... (13) Appendix D: MATLAB Code for Complex Multi-Slice Model Extraction ... (14) Appendix E: Post-Processing Details for Raw Vector Measurements in the In-Circuit Filter Tuning Application.



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