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Titolo	European voices II : cultural listening and local discourse in multipart singing traditions in Europe; CD and DVD with audio and video examples included / / Ardian Ahmedaja (editor)
Pubbl/distr/stampa	Böhlau, 2011 Germany : , : Bohlau Verlag, , 2011
ISBN	9783205787372 (hardback)
Descrizione fisica	1 online resource (492 pages) : illustrations, maps, music
Collana	Schriften zur Volksmusik ; ; Band 23
Soggetti	Music Music, Dance, Drama & Film Printed Music, Vocal
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	Although the fundamental meaning of basic terminology is well established for every scholarly discipline, many concepts are often questioned and redefined. In the case of ethnomusicology, this process is all too familiar, as researchers within the discipline focus on the most diverse of music cultures. The manifold worldviews of the resource persons, as holders and presenters (in both meanings of the word) of a tradition make the matter more complex. Such a situation has particular significance in the context of multipart singing because of the specific musical aesthetics and vocabularies established among singing groups. Additionally, it is accentuated by processes of change within every musical culture and those of ethnomusicology. Examining this question from the viewpoint of folk terminology means primarily considering specific and individual concepts of cultural listening, in the sense of 'paying attention', 'con-centrating' and 'focusing on'. These concepts are established on the one hand through the processes of music listening and music making and on the other hand through the local dis-course, in which singers and musicians as well as local communities are very much involved. The discourse as a

communication category with which people communicate about the claim to validity of rules also plays an important role in processes of legitimating and power within the community. An essential part of the discourse is singing itself. The music therefore becomes the object and subject of research. Of particular relevance in this framework are questions of gender, applying to communities in which women practice multipart singing and others where they are mostly listeners, although contributing decisively in the discourse processes. A specific role become issues of brain research. In this context the functionality of an exact motor control system within the body for precise timing, sequencing and the spatial organisation of movements during musical performance become particularly important. Performing and listening to music are culturally conditioned, but they are at the same time natural human abilities. Therefore the study of underlying processes is crucial and promises to uncover fun-damental properties of the human brain. The different theoretical viewpoints in the first three chapters of the book are followed by ap-proaches of a "Lexicon of Local Terminology on Multipart Singing in Europe". These reflect the situation of a few but different communities and areas in Europe, helping to obtain additional insights into the topics in question.

2. Record Nr. UNINA9910821592603321

Autore	Ghannouchi Fadhel M. <1958->
Titolo	Behavioral modelling and predistortion of wideband wireless transmitters / / Fadhel Ghannouchi, Oualid Hammi, Mohamed Helaoui
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Edizione	[1st edition]
Descrizione fisica	1 online resource (272 p.)
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Soggetti	Wireless communication systems - Mathematical models Broadband communication systems - Mathematical models Signal theory (Telecommunication) - Mathematics Telecommunication - Transmitters and transmission - Mathematics Nonlinear systems - Mathematical models Electric distortion - Mathematical models
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; About the Authors; Preface; Acknowledgments; Chapter 1 Characterization of Wireless Transmitter Distortions; 1.1 Introduction; 1.1.1 RF Power Amplifier Nonlinearity; 1.1.2 Inter-Modulation Distortion and Spectrum Regrowth; 1.2 Impact of Distortions on Transmitter Performances; 1.3 Output Power versus Input Power Characteristic; 1.4 AM/AM and AM/PM Characteristics; 1.5 1 dB Compression Point; 1.6 Third and Fifth Order Intercept Points; 1.7 Carrier to Inter-Modulation Distortion Ratio; 1.8 Adjacent Channel Leakage Ratio; 1.9 Error Vector Magnitude ReferencesChapter 2 Dynamic Nonlinear Systems; 2.1 Classification of Nonlinear Systems; 2.1.1 Memoryless Systems; 2.1.2 Systems with Memory; 2.2 Memory in Microwave Power Amplification Systems; 2.2.1 Nonlinear Systems without Memory; 2.2.2 Weakly Nonlinear and Quasi-Memoryless Systems; 2.2.3 Nonlinear System with Memory; 2.3 Baseband and Low-Pass Equivalent Signals; 2.4 Origins and Types of

Memory Effects in Power Amplification Systems; 2.4.1 Origins of Memory Effects; 2.4.2 Electrical Memory Effects; 2.4.3 Thermal Memory Effects; 2.5 Volterra Series Models; References
Chapter 3 Model Performance Evaluation3.1 Introduction; 3.2 Behavioral Modeling versus Digital Predistortion; 3.3 Time Domain Metrics; 3.3.1 Normalized Mean Square Error; 3.3.2 Memory Effects Modeling Ratio; 3.4 Frequency Domain Metrics; 3.4.1 Frequency Domain Normalized Mean Square Error; 3.4.2 Adjacent Channel Error Power Ratio; 3.4.3 Weighted Error Spectrum Power Ratio; 3.4.4 Normalized Absolute Mean Spectrum Error; 3.5 Static Nonlinearity Cancelation Techniques; 3.5.1 Static Nonlinearity Pre-Compensation Technique; 3.5.2 Static Nonlinearity Post-Compensation Technique
3.5.3 Memory Effect Intensity3.6 Discussion and Conclusion; References; Chapter 4 Quasi-Memoryless Behavioral Models; 4.1 Introduction; 4.2 Modeling and Simulation of Memoryless/Quasi-Memoryless Nonlinear Systems; 4.3 Bandpass to Baseband Equivalent Transformation; 4.4 Look-Up Table Models; 4.4.1 Uniformly Indexed Loop-Up Tables; 4.4.2 Non-Uniformly Indexed Look-Up Tables; 4.5 Generic Nonlinear Amplifier Behavioral Model; 4.6 Empirical Analytical Based Models; 4.6.1 Polar Saleh Model; 4.6.2 Cartesian Saleh Model; 4.6.3 Frequency-Dependent Saleh Model; 4.6.4 Ghorbani Model
4.6.5 Berman and Mahle Phase Model4.6.6 Thomas-Weidner-Durrani Amplitude Model; 4.6.7 Limiter Model; 4.6.8 ARCTAN Model; 4.6.9 Rapp Model; 4.6.10 White Model; 4.7 Power Series Models; 4.7.1 Polynomial Model; 4.7.2 Bessel Function Based Model; 4.7.3 Chebyshev Series Based Model; 4.7.4 Gegenbauer Polynomials Based Model; 4.7.5 Zernike Polynomials Based Model; References; Chapter 5 Memory Polynomial Based Models; 5.1 Introduction; 5.2 Generic Memory Polynomial Model Formulation; 5.3 Memory Polynomial Model; 5.4 Variants of the Memory Polynomial Model; 5.4.1 Orthogonal Memory Polynomial Model
5.4.2 Sparse-Delay Memory Polynomial Model

Sommario/riassunto

Covers theoretical and practical aspects related to the behavioral modelling and predistortion of wireless transmitters and power amplifiers. It includes simulation software that enables the users to apply the theory presented in the book. In the first section, the reader is given the general background of nonlinear dynamic systems along with their behavioral modelling from all its aspects. In the second part, a comprehensive compilation of behavioral models formulations and structures is provided including memory polynomial based models, box oriented models such as Hammerstein-based and Wiener-based models, and neural networks-based models. The book will be a valuable resource for design engineers, industrial engineers, applications engineers, postgraduate students, and researchers working on power amplifiers modelling, linearization, and design.