



Acoustics, information, and communication : memorial volume in honor of Manfred R. Schroeder /

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Festschriften.

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Monografía

This book explores the life and scientific legacy of Manfred Schroeder through personal reflections, scientific essays and Schroeder's own memoirs. Reflecting the wide range of Schroeder's activities, the first part of the book contains thirteen articles written by his colleagues and former students. Topics discussed include his early, pioneering contributions to the understanding of statistical room acoustics and to the measurement of reverberation time; his introduction of digital signal processing methods into acoustics; his use of ray tracing methods to study sound decay in rooms and his a.

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Contenido: Acoustical Society of America; Series Preface for Modern Acoustics and Signal Processing; Preface; Contents; List of Contributors; Part I: Scientific Chapters; Chapter 1: Spatial Audio and Room Acoustics; 1.1 Introduction; 1.2 Room Acoustics; 1.3 Hands-Free Telephony; 1.4 Spatial Audio and Perception; 1.5 Summary; References; Chapter 2: The Early History of Ray Tracing in Acoustics; 2.1 Introduction; 2.2 First Studies by Allred and Newhouse in 1958: Mean Free Path Calculations; 2.3 Schroeder at ICA in 1962: The Path Towards Auralization 2.4 Developments in Oslo 1965-1967: Diffuseness of Reverberation Rooms with Hanging Reflectors 2.5 Developments in Trondheim, Leading up to the Paper in 1968; 2.6 Schroeder at the ASA Meeting in 1967: Computing Decays in Generally Shaped Convex Rooms; 2.7 Later Developments of Ray Tracing in Room Acoustics; 2.8 Ray Tracing in Other Fields; 2.9 Concluding Remarks; References; Chapter 3: Advanced Room-Acoustics Decay Analysis; 3.1 Introduction; 3.2 Schroeder Decay and Model; 3.3 Linear and Nonlinear Regression; 3.4 Bayesian Decay Analysis; 3.4.1 Two Levels of Bayesian Inference 3.4.1.1 Model Selection: The Second Level of Inference 3.4.1.2 Parameter Estimation: The First Level of Inference; 3.5 Bayesian Information Criterion; 3.6 Sampling Methods; 3.6.1 Basic Formulation; 3.6.2 Numerical Implementation; 3.6.3 Posterior Samples for Parameter Estimation; 3.7 Discussion; 3.8 Conclusions; References; Chapter 4: Estimating the Crossover Time Within Room Impulse Responses; 4.1 Introduction; 4.2 A Brief Review of Statistical Room Acoustics; 4.3 Estimating the Crossover Time; 4.3.1 Introduction; 4.3.2 Matching Pursuit; 4.3.3 eXtensible Fourier Transform 4.3.4 Comparing MP and XFT 4.4 Discussion Around the Crossover Time and the Mixing Time; 4.4.1 Ergodicity and Mixing; 4.4.2 Why the Crossover Time Cannot be Called the Mixing Time; References; Chapter 5: Are Impulse Responses Gaussian Noises?; 5.1 Introduction; 5.2 Results from Previous Research; 5.3 Generalizing Schroeder's Model to Time Domain; 5.4 Raw Analysis of Impulse Responses; 5.5 Compensating for Decay; 5.6 Detailed Analysis; 5.6.1 Impulse Response; 5.6.2 Transfer Function; 5.7 Conclusion; References; Chapter 6: Recent Applications of Number-Theoretic Sequences in Audio and Acoustics 6.1 Introduction 6.2 Properties of Maximum-Length Related Sequences; 6.3 Acoustical Measurements Using Simultaneous Sound Sources; 6.4 Artificial Reverberations Using Reciprocal MLS Pairs and Related Sequences; 6.5 Decorrelation of Audio Signals Using Reciprocal MLS Pairs [23]; 6.6 Diffuser Sequences; 6.7 Diffusers; References; Chapter 7: Where Mathematics and Hearing Science Meet: Low Peak Factor Signals and Their Role in Hearing Research; 7.1 Introduction; 7.2 Schroeder's Major Contributions to Hearing Research; 7.3 Harmonic Complex Tone Stimuli and the Role of Phase Spectra

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