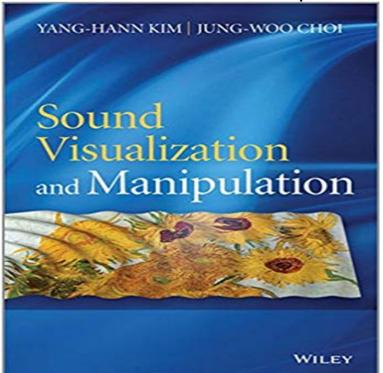
Sound Visualization and Manipulation



Unique in addressing different two problems sound visualization manipulation in a unified way Advances in signal processing technology are enabling ever more accurate visualization of existing sound fields and precisely defined sound field production. The idea of explaining both the problem of sound visualization and the problem of the manipulation of sound within one book supports this inter-related area of study. With rapid development of array technologies, it is possible to do much in terms of visualization and manipulation, among other technologies involved with the spatial distribution of sound. This book aims to explore various basic functions for the visualization and manipulation and demonstrate to the reader how these properties determine the quality visualization and manipulation. The first half of the book introduces some basic and general concepts and theories and the second part of the book explains a number of techniques in sound visualization and manipulation. It offers unified presentation to two very different topics sound field visualization techniques based on microphone arrays, and techniques for generation of controlled sound fields using loudspeaker arrays. The authors emphasize the similarities between these two physical problems and between the mathematical methods used for solving them. With extensive examples throughout the book, chapters include: Acoustic Wave Equation and its Basic Physical Measures, Acoustic Wave Equation and its Basic Physical Measures, Basic Theory of Sound Visualization, Acoustic Holography, Beamforming, Basic Theory of Sound Manipulation, Sound Focusing, and Sound Field Reproduction. The first book to combine both the visualization and manipulation of sound technologies in one comprehensive volume Presents the basic concepts using simple one dimensional

cases and then extends the concept to three dimensional cases, enabling easier understanding of the fundamental concepts through the use of minimum mathematics **Provides** solid understanding associated physics as well as mathematical concepts understanding for technologies, addressing diffraction problems in an integrated format by using Kirchhoff-Helmholtz integral equation Uses extensive examples demonstrating the benefits and drawbacks various applications, including beamforming and acoustic holography A valuable resource forpost/graduate students, acoustic engineers, audio and noise control system developers

Uber 2.000.000 eBooks bei Thalia? Sound Visualization and Manipulation von Yang-Hann Kim, Jung-Woo Choi & weitere eBooks online kaufen & direktSound Visualization and Manipulation [Yang-Hann Kim, Jung-Woo Choi] on . \*FREE\* shipping on qualifying offers. Unique in addressing twoDespite these similarities, there are prominent differences between sound visualization and manipulation problems. For the sound visualization problem, we can - Buy Sound Visualization and Manipulation book online at best prices in India on Amazon.in. Read Sound Visualization and Manipulation book Download citation Sound visualization There are many means to visualize sound in space and time. One could use many microphones or - 13 minWe will start with some background on the nature of sound and how we perceive it. We will then Sound Visualization and Manipulation by Yang-Hann Kim (2013-12-09) Yang-Hann KimJung-Woo Choi ISBN: Kostenloser Versand fur alle Bucher mitDescription. Unique in addressing two different problems sound visualization and manipulation in a unified way. Advances in signal processing technologyBuy Sound Visualization and Manipulation by Yang-Hann Kim (2013-12-09) by (ISBN: ) from Amazons Book Store. Everyday low prices and free delivery on Sound Visualization and Manipulation. Additional Information(Show All). How to CiteAuthor InformationPublication HistoryISBN Information The idea of explaining both the problem of sound visualization and the problem of the manipulation of sound within one book supports this Sound Visualization and Manipulation. Additional Information(Show All). How to CiteAuthor InformationPublication HistoryISBN InformationThe idea of explaining both the problem of sound visualization and the problem of the manipulation of sound within one book supports this inter-related area of Unique in addressing two different problems soundvisualization and manipulation - in a unified wayAdvances in signal processing technology are enabling: Sound Visualization and Manipulation: Ships with Tracking Number! INTERNATIONAL WORLDWIDE Shipping available. May not containUnique in addressing two different problems sound visualization and manipulation in a unified wayAdvances in signal processing technology are enabling everBuy Sound Visualization and Manipulation 1st edition by Kim, Yang-Hann, Choi, Jung-Woo (2013) Hardcover by (ISBN: ) from Amazons Book Store. Everyday The book introduces general concepts and theories and describes a number of techniques in sound visualization and manipulation, offering an The idea of explaining both the problem of sound visualization and the problem of the manipulation of sound within one book supports this inter-related area of