1. Record Nr. UNINA9910584592603321

Autore	Fett Theo
Titolo	Consequences of hydroxyl generation by the silica/water reaction : Part II: Global and local Swelling - Part III: Damage and Young's Modulus
Pubbl/distr/stampa	Karlsruhe, : KIT Scientific Publishing, 2022
ISBN	1000141423
Descrizione fisica	1 online resource (226 p.)
Collana	Schriftenreihe des Instituts für Angewandte Materialien, Karlsruher Institut für Technologie
Soggetti	Mechanical engineering & materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Water diffusing into silica surfaces gives rise for several effects on diffusion behaviour and mechanical properties. In a preceding booklet, we focused on diffusion and fiber strengths and deformations which were obtained by water soaking under external loading. In the present booklet we deal with results and interpretations of strength increase in the absence of applied stresses.

2. Record Nr. UNINA9910299681803321

Autore	Benesty Jacob
Titolo	Design of Circular Differential Microphone Arrays / / by Jacob Benesty, Jingdong Chen, Israel Cohen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	9783319148427 3319148427
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (172 p.)
Collana	Springer Topics in Signal Processing, , 1866-2617 ; ; 12
Disciplina	620 621.382
Soggetti	Signal processing Telecommunication Signal, Speech and Image Processing Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Problem Formulation -- Design of First-Order Circular Differential Arrays -- Design of Second-Order Circular Differential Arrays -- Design of Third-Order Circular Differential Arrays -- Super directive Beamforming with Circular Arrays -- Minimum-Norm Solution for Robust Circular Differential Arrays -- Design of Circular Differential Arrays with the Jacobi-Anger Expansion.
Sommario/riassunto	Recently, we proposed a completely novel and efficient way to design differential beamforming algorithms for linear microphone arrays. Thanks to this very flexible approach, any order of differential arrays can be designed. Moreover, they can be made robust against white noise amplification, which is the main inconvenience in these types of arrays. The other well-known problem with linear arrays is that electronic steering is not really feasible. In this book, we extend all these fundamental ideas to circular microphone arrays and show that we can design small and compact differential arrays of any order that can be electronically steered in many different directions and offer a good degree of control of the white noise amplification problem, high

directional gain, and frequency-independent response. We also present a number of practical examples, demonstrating that differential beamforming with circular microphone arrays is likely one of the best candidates for applications involving speech enhancement (i.e., noise reduction and dereverberation). Nearly all of the material presented is new and will be of great interest to engineers, students, and researchers working with microphone arrays and their applications in all types of telecommunications, security and surveillance contexts.