1.	Record Nr.	UNINA9910139942803321
	Autore	Lee Kong-Aik
	Titolo	Subband adaptive filtering [[electronic resource]] : theory and implementation / / by Kong-Aik Lee, Woon-Seng Gan, Sen M. Kuo
	Pubbl/distr/stampa	Hoboken, NJ, : J. Wiley, 2009
	ISBN	1-282-23729-2 9786612237294 0-470-74597-5 0-470-74598-3
	Descrizione fisica	1 online resource (346 p.)
	Altri autori (Persone)	GanWoon-Seng KuoSen M (Sen-Maw)
	Disciplina	621.3815 621.3815324
	Soggetti	Adaptive filters Adaptive signal processing Radio frequency modulation, Narrow-band Electronic books.
	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	Subband Adaptive Filtering; Contents; About the authors; Preface; Acknowledgments; List of symbols; List of abbreviations; 1 Introduction to adaptive filters; 1.1 Adaptive filtering; 1.2 Adaptive transversal filters; 1.3 Performance surfaces; 1.4 Adaptive algorithms; 1.5 Spectral dynamic range and misadjustment; 1.6 Applications of adaptive filters; 1.6.1 Adaptive system identification; 1.6.2 Adaptive prediction; 1.6.3 Adaptive inverse modeling; 1.6.4 Adaptive array processing; 1.6.5 Summary of adaptive filtering applications; 1.7 Transform-domain and subband adaptive filters 1.7.1 Transform-domain adaptive filters1.7.2 Subband adaptive filters; 1.8 Summary; References; 2 Subband decomposition and multirate systems; 2.1 Multirate systems; 2.2 Filter banks; 2.2.1 Input-output relation; 2.2.2 Perfect reconstruction filter banks; 2.2.3 Polyphase representation; 2.3 Paraunitary filter banks; 2.4 Block transforms; 2.4.1 Filter bank as a block transform; 2.5 Cosine-modulated filter banks;

Sommario/riassunto	Subband adaptive filtering is rapidly becoming one of the most effective techniques for reducing computational complexity and improving the convergence rate of algorithms in adaptive signal processing applications. This book provides an introductory, yet extensive guide on the theory of various subband adaptive filtering techniques. For beginners, the authors discuss the basic principles that underlie the design and implementation of subband adaptive filters. For advanced readers, a comprehensive coverage of recent developments, such as multiband tap-weight adaptation, delayless architectures,