1.	Record Nr.	UNINA9910298990403321
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	Titolo	Channel Estimation for Physical Layer Network Coding Systems / / by Feifei Gao, Chengwen Xing, Gongpu Wang
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
	ISBN	3-319-11668-1
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (85 p.)
	Collana	SpringerBriefs in Computer Science, , 2191-5768
	Disciplina	004.6
	Soggetti	Coding theory
		Information theory
		Electrical engineering
		Signal processing
		Image processing
		Speech processing systems
		Computers
		Computer organization
		Coding and Information Theory
		Communications Engineering, Networks
		Signal, Image and Speech Processing
		Information Systems and Communication Service
		Computer Systems Organization and Communication 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 at the end of each chapters.
	Nota di contenuto	Fundamentals of Physical Layer Network Coding -- Background on Channel Estimation -- Channel Estimation for PLNC under Frequency Flat Fading Scenarios -- Channel Estimation for PLNC under Frequency Selective Fading Scenarios -- Channel Estimation for PLNC under Time-Selective Fading Scenarios -- Conclusions and Future Directions.
	Sommario/riassunto	This SpringerBrief presents channel estimation strategies for the physical later network coding (PLNC) systems. Along with a review of PLNC architectures, this brief examines new challenges brought by the special structure of bi-directional two-hop transmissions that are

different from the traditional point-to-point systems and unidirectional relay systems. The authors discuss the channel estimation strategies over typical fading scenarios, including frequency flat fading, frequency selective fading and time selective fading, as well as future research directions. Chapters explore the performance of the channel estimation strategy and optimal structure of training sequences for each scenario. Besides the analysis of channel estimation strategies, the book also points out the necessity of revisiting other signal processing issues for the PLNC system. Channel Estimation of Physical Layer Network Coding Systems is a valuable resource for researchers and professionals working in wireless communications and networks. Advanced-level students studying computer science and electrical engineering will also find the content helpful.