1.	Record Nr.	UNINA9910144134003321
	Autore	Sivannarayana Nagireddi
	Titolo	VoIP voice and fax signal processing [[electronic resource] /] / Sivannarayana Nagireddi
	Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2008
	ISBN	1-281-76671-2
		9786611766719
		0-470-37787-9
		0-470-37786-0
	Descrizione fisica	1 online resource (592 p.)
	Disciplina	621.385
	Soggetti	Internet telephony
		Facsimile transmission
		Signal processing - Digital techniques
		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	VoIP VOICE AND FAX SIGNAL PROCESSING; CONTENTS; Acknowledgments; About the Author; Preface; Glossary; 1 PSTN Basic Infrastructure, Interfaces, and Signals; 1.1 PSTN CO and DLC; 1.1.1 Analog CO; 1.1.2 Digital CO and DLC; 1.2 PSTN User Interfaces; 1.2.1 FXS and FXO Analog Interfaces; 1.2.2 SLAC, CODEC and codec-Clarifications on Naming Conventions; 1.2.3 TIP-RING, Off-Hook, On-Hook, and POTS Clarifications; 1.2.4 ISDN Interface; 1.2.5 T1/E1 Family Digital Interface; 1.3 Data Services on Telephone Lines; 1.3.1 DSL Basics; 1.4 Power Levels and Digital Quantization for G.711 /A-Law 1.4.1 -Law Power Levels and Quantization1.4.2 A-Law Power Levels and Quantization; 1.5 Significance of Power Levels on Listening; 1.6 TR-57, IEEE-743, and TIA Standards Overview; 1.6.1 TR-57 Transmission Tests; 1.6.2 IEEE STD-743-Based Tests; 1.6.3 Summary on Association of TR-57, IEEE, and TIA Standards; 2 VoIP Overview and Infrastructure; 2.1 PSTN and VoIP; 2.1.1 CPE and Naming Clarifications of VoIP Systems in this Book; 2.1.2 VoIP End-User Call Combinations; 2.2 Typical VoIP Deployment Example; 2.3 Network and Acoustic

Sommario/riassunto	A complete and systematic treatment of signal processing for VoIP voice and fax This book presents a consolidated view and basic approach to signal processing for VoIP voice and fax solutions. It provides readers with complete coverage of the topic, from how things work in voice and fax modules, to signal processing aspects, implementation, and testing. Beginning with an overview of VoIP infrastructure, interfaces, and signals, the book systematically covers: Voice compression Packet loss concealment techniques DTMF detection, generation, and rejection Wideband vo