Record Nr. Autore	UNINA9910465168103321 Wang Zhancang
Titolo Pubbl/distr/stampa	Envelope Tracking Power Amplifiers for Wireless Communications Norwood : , : Artech House, , 2014 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2014]
ISBN	1-60807-785-3
Descrizione fisica	1 online resource (363 p.)
Collana	The Artech House microwave library
Disciplina	621.38413
Soggetti	Power amplifiers 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	Envelope Tracking Power Amplifiers for Wireless Communications; Contents; Preface; Acknowledgments; CHAPTER 1 High-Efficiency Power Amplifier Architectures and Devices; 1.1 Efficiency Definitions for RF PA; 1.2 Characteristics of Modern Modulated Signals; 1.2.1 Crest Factor; 1.2.2 Probability Density Function; 1.2.3 Second Generation Signal ; 1.2.4 Third Generation Signal ; 1.2.5 Fourth Generation Signal ; 1.3 Architectures for High-Efficiency PA; 1.3.1 Switch Mode PA; 1.3.2 Waveform-Engineered PA; 1.3.3 Doherty; 1.3.4 LINC and Outphasing; 1.3.5 Envelope Elimination and Restoration. 1.3.6 Envelope Tracking1.4 Device Technologies for High-Efficiency PA; 1.4.1 GaAs HBT; 1.4.2 CMOS ; 1.4.3 Si-LDMOS; 1.4.4 GaN HEMT; References; CHAPTER 2 Envelope Tracking Power Amplifier Basics; 2.1 Introduction; 2.1.1 Motivation for ET; 2.1.2 ET Pyramid; 2.2 Principle of ET; 2.2.1 Signal Definition; 2.2.2 ET Efficiency; 2.2.3 Design Cons.
Sommario/riassunto	Envelope tracking technology is seen as the most promising efficiency enhancement technology for RF power amplifiers for 4G and beyond wireless communications. More and more organizations are investing and researching on this topic with huge potential in academic and commercial areas. This is the first book on the market to offer complete introduction, theory, and design considerations on envelope tracking for wireless communications. This resource presents you with

1.