

1. Record Nr.	UNINA9910337614603321
Autore	Khalaf Khaled
Titolo	Low-Power Millimeter Wave Transmitters for High Data Rate Applications // by Khaled Khalaf, Vojkan Vidojkovic, John R. Long, Piet Wambacq
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-16653-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (127 pages)
Collana	Signals and Communication Technology, , 1860-4862
Disciplina	621.3815
Soggetti	Electronic circuits Microwaves Optical engineering Power electronics Circuits and Systems Microwaves, RF and Optical Engineering Power Electronics, Electrical Machines and Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Design Considerations for High-Datarate Low-Power 60GHz TX Front-Ends -- 60GHz TX Front-Ends in Advanced CMOS Technologies with Improved Back-Off Efficiencies -- Digitally-Modulated Polar Transmitters in 40nm CMOS.
Sommario/riassunto	This book discusses low power techniques for millimeter wave transmitter IC. Considerations for the front-end design are followed by several implementation examples in the 60GHz band in CMOS down to 28nm technology. Additionally, the design and implementation details of digitally-modulated millimeter wave polar transmitters are presented.