

1. Record Nr.	UNINA9910346766403321
Autore	Scherr Steffen
Titolo	FMCW-Radarsignalverarbeitung zur Entfernungsmessung mit hoher Genauigkeit
Pubbl/distr/stampa	KIT Scientific Publishing, 2017
ISBN	1000062132
Descrizione fisica	1 online resource (XV, 140 p. p.)
Collana	Karlsruher Forschungsberichte aus dem Institut für Hochfrequenztechnik und Elektronik
Soggetti	Technology: general issues
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Distance measurements with micrometer accuracies are essential for the control of industrial machines. This work investigates the maximum possible accuracy of FMCW radar systems, which use an additional phase evaluation. The feasibility of the developed techniques is shown in different industrial applications. An accuracy better than 1 µm is demonstrated in measurements.