A homodyne network analyser based on the FMCW-method and digital signal processing

Proceedings of the 1996 Conference on Precision Electromagnetic Measurements
pp. 530-531

Abstract

The use of the well known FMCW method for the construction of a vector network analyzer (NA) is described. The benefits of this new method are a very simple homodyne receiver, very fast measurements and the use of digital signal processing. The validity of the theory is proved by measurements of a microwave reflectometer. B. Geck, J. Marquardt, M. Sagebiel