2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, AP-S/URSI 2022 - Proceedings • Pages 1566 - 1567 • 2022 • 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, AP-S/URSI 2022 • Denver • 10 July 2022through 15 July 2022 • Code 182906

Document type
Conference Paper

Source type
Conference Proceedings

ISBN
978-166549658-2

DOI
10.1109/AP-S/USNC-URSI47032.2022.9886243

Publisher
Institute of Electrical and Electronics Engineers Inc.

Sponsors
IEEE Antennas and Propagation Society • The Institute of Electrical and Electronics Engineers

Original language
English

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SFCW Software-Defined Radar using LabVIEW and USRP for Subsurface Sensing

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Abstract

In this paper, we describe the experiment of a dual-channel stepped-frequency continuous wave (SFCW) radar system using LabVIEW and NI USRP N210. The step-by-step of the radar design is discussed, including the SFCW signal generation, the USRP-LabVIEW connection, and the transmit/receive process of the system. © 2022 IEEE.

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