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Continuous-wave radar (CW radar) is a type of radar system where a known stable frequency continuous wave radio energy is transmitted and then received from any reflecting objects. Individual objects are detected using the Doppler effect, which causes the received signal to have a different frequency than the transmission, allowing it to be detected by filtering out the transmitted frequency.

Joongsuk Park (Author of Stepped-Frequency Radar Sensors)

The Spectrally Agile Frequency-Incrementing Reconfigurable (SAFIRE) radar is a vehicle-mounted, forward-looking ground-penetrating radar (FLGPR) system designed to detect buried or hidden explosive hazards. It was developed by the U.S. Army Research Laboratory (ARL) in 2016 as part of a long generation of ultra-wideband (UWB) and synthetic aperture radar (SAR) systems created to combat buried ...

APPLICATION NOTES - Sivers IMA

Stepped Frequency Continuous Wave (SFCW) Radar Theory. Based on Frequency Modulated Continuous Wave (FMCW) theory, this is a special type of radar sensor which sends and receives signals out in the frequency domain rather than the time domain. The transmission signal is modulated which allows it to sweep a large range of

frequencies.

Stepped-Frequency Radar Sensors: Theory, Analysis and ...
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Blog: An Introduction to Ground Penetrating Radar
Pulse train signal model of Random stepped-frequency radar (RSFR). 0 f c +f 1 >> f c +f 0 f c +f M-1 T r f c +f m B f c + m+1 T t f f c x Assume that the extended rigid target has K scattering centers projected on the radar line of sight (LOS) and that the aspect of the target with respect to radar remains unchanged during the coherent

Stepped Frequency Radar Sensors Theory
Stepped-frequency radar sensors are attractive for various sensing applications that require fine resolution. The book consists of five chapters. The first chapter describes the fundamentals of radar sensors including applications followed by a review of ultra-wideband pulsed, frequency-modulated continuous-wave (FMCW), and stepped-frequency radar sensors.

Precision Imaging of Frequency Stepped SAR with Frequency ...
Development of a Step Frequency Continuous Wave Radar for Detection and Tracking of Objects in Motion Aly E Fathy(1), ... "A review on recent advances in Doppler radar sensors for noncontact healthcare monitoring," Microwave Theory and Techniques, IEEE Transactions on, vol. 61, pp. 2046-2060, 2013. ...

Radartutorial
Frequency stepped radar's HRRP and 2D images are used for target recognition and classification. Currently, the fine range resolution capability of frequency stepped radar is being exploited to solve the difficult problem of detection of high-speed, low-RCS targets in the presence of large clutter.

Stepped-Frequency Radar Sensors: Theory, Analysis and ...
Stepped frequency changing. In general, the same advantages and disadvantages of a stepped frequency modulation as the method with a square-wave modulation apply. However, the FMCW radar is now working with several successive frequencies. In each of these individual frequencies, a phase angle of the echo signal is measured.

Adaptation of stepped frequency continuous waveform to ...
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SAFIRE radar - Wikipedia
FMCW Radar Sensors Data subject to change without notice. Rev. A 2011 – 06 - 2011 _____ Sivers IMA AB Tel: +46-8-703 68 00 Box 1274 Fax: +46-8-751 92 71 SE-164 29 Kista e-mail: sales@siversima.se Sweden www.siversima.com Frequency Modulated Continuous Wave Radar Basic operating principles and theory

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CIRCUIT STEPPED-FREQUENCY RADAR SENSORS FOR SURFACE AND SUBSURFACE PROFILING A Dissertation by JOONGSUK PARK Submitted to Texas A&M University ... when the image theory is used.....41 Figure 2.10 Subsurface radar sensors receiving from the 2nd interface: (a) geometry of the pavement (b) geometry of the ...

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For a SFCW radar setup, the back-scattered signal from a steady point target at a range distance R from the radar can be written as (1) S rec (f n, t; ?) = A 0 cos ? (2 ? f n (t ? ?) + ? n), where A 0 indicate the scattering amplitude from the point target, f n = f 0 + n ? f, (n = 0, …, N ? 1) is the nth discrete frequency with f 0 and N being the first frequency and number of the ...

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Continuous-wave radar - Wikipedia
Inspired by compressed sensing theory, a novel radar system, called hybrid-frequency radar is proposed. It transmits multiple carrier-frequency modulated by random amplitude in each pulse, and can use much fewer pulses than that of stepped-frequency radar to achieve the same non-ambiguous range interval while the target is sparse spatially.