

## The Micro Doppler Effect In Radar By Victor Chen

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### The Micro Doppler Effect In

Written for aspiring and practicing professionals in the scientific field, The Micro-Doppler Effect in Radar is the updated and expanded second edition of a classic text by expert author Victor C. Chen, who is internationally recognized for his work in the micro-Doppler effect in radar and time-frequency-based radar image formation.

### The Micro-doppler Effect in Radar: Victor C. Chen ...

Micro-Doppler effect in time frequency domain can be a good candidate to identify if there is pedestrian signature embedded in the radar signal. As an example, the following section simulates the radar return for 2.5 seconds.

### Introduction to Micro-Doppler Effects - MATLAB & Simulink

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### The Micro-Doppler Effect in Radar | atlanticbooks.com

The Micro-Doppler Effect in Radar (2nd ed.) by Victor C. Chen. Written by a prominent expert in the field, this updated and expanded second edition of an Artech House classic includes the most recent breakthroughs in vital sign and gender recognition via micro-radar, as well as covering basic principles of Doppler effect and micro-Doppler effect and describing basic applications of micro-Doppler signatures in radar.

### The Micro-Doppler Effect in Radar (2nd ed.)

In the paper, the micro-Doppler effect in radar is introduced and the mathematics of micro-Doppler signatures is developed. Computer simulations are conducted and micro-Doppler features in the joint time-frequency domain are exploited. 1 Introduction Radar transmits a signal to a target,

### The Micro Doppler Effect In Radar By Victor Chen

Micro-Doppler effect in radar: phenomenon, model, and simulation study. Abstract: When, in addition to the constant Doppler frequency shift induced by the bulk motion of a radar target, the target or any structure on the target undergoes micro-motion dynamics, such as mechanical vibrations or rotations, the micro-motion dynamics induce Doppler modulations on the returned signal, referred to as the micro-Doppler effect.

### Micro-Doppler effect in radar: phenomenon, model, and ...

The micro-Doppler effect enables us to determine the dynamic properties of the target and it offers a new approach for the analysis of target signatures. Micro-Doppler features serve as additional target features that are complementary to those made available by existing methods. The micro-Doppler effect can be used to identify specific types of

### Micro-Doppler Effect in Radar: Phenomenon, Model, and ...

Micro-Doppler effects in narrowband radar are introduced in this chapter. We mainly analyze the micro-Doppler effects induced by rotations, vibrations, and precessions of targets. Rotations, vibrations, and precessions are typical micromotion dynamics of targets in the real world. Typical rotations include rotations of helicopter rotors, mechanical scanning radar antennas, turbine blades, etc. Typical vibrations include engine-induced car surface vibrations, mechanical oscillations of a ...

### Micro-Doppler Characteristics of Radar Targets | ScienceDirect

The Doppler effect (or the Doppler shift) is the change in frequency of a wave in relation to an observer who is moving relative to the wave source. It is named after the Austrian physicist Christian Doppler, who described the phenomenon in 1842.. A common example of Doppler shift is the change of pitch heard when a vehicle sounding a horn approaches and recedes from an observer.

### Doppler effect - Wikipedia

In the paper, the micro-Doppler effect in radar is introduced and the mathematics of micro-Doppler signatures is developed. Computer simulations are conducted and micro-Doppler features in the joint time-frequency domain are exploited. 1 Introduction Radar transmits a signal to a target, interacts with the target, and returns back to the radar.

### Analysis of micro-Doppler signatures

In monostatic radar, motion of the target towards or away changes the frequency of the reflected signal, this is the Doppler effect, says Chen. This is the micro-Doppler effect, and the focus of his work here.

### The Micro-Doppler Effect in Radar by Victor C. Chen (2019 ...

The book includes coverage of the Google project "Soli", which demonstrated the use of radar micro-Doppler effect to sense and recognize micro motions of human hand gesture for controlling devices.

### ARTECH HOUSE USA : The Micro-Doppler Effect in Radar ...

This paper presents a method to estimate the nutation and geometrical parameters of cone-shaped target based on micro-Doppler effect. The theoretical micro-Doppler effects for conic node and bottom scattering sources of nutation cone-shaped target is analyzed, which is decomposed into high order harmonic components by Bessel function.

### Nutation and geometrical parameters estimation of cone ...

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### The Micro-Doppler Effect in Radar [With DVD] (Artech House ...

When radar echoes are modulated by human activities, there will be micro-Doppler signatures motivated by micro-movements. Micro-Doppler frequency varies with the velocity of a moving target so that each movement has its unique micro-Doppler signatures, which can be used for activity recognition.

### Open-set human activity recognition based on micro-Doppler ...

Algorithms to Antenna: Modeling Micro-Doppler Effects Micro-Doppler effects are a result of motion with respect to platform motion. This post investigates these effects, using pedestrian identification and helicopter-blade-speed estimation as examples. Honglei Chen Rick Gentile

**Algorithms to Antenna: Modeling Micro-Doppler Effects ...**

You find detailed descriptions of the physics and mathematics of the Doppler and micro-Doppler effect. Moreover, you learn how to derive rigid and non-rigid body motion induced micro-Doppler effect in radar scattering.

**The Micro-Doppler Effect in Radar by Victor Chen | NOOK ...**

Dr. Victor C Chen's new book: The Micro-Doppler Effect in Radar, Second Edition Updated and expanded second edition of an Artech House classic includes the most recent breakthroughs in vital sign and gesture recognition via micro-Doppler radar.

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