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Fundamentals Of Radar Signal Processing

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Fundamentals of Signal Processing for Phased Array Radar

Fundamentals of Signal Processing for Phased Array Radar Dr Ulrich Nickel Research Institute for High-Frequency Physics and Radar Techniques (FHR), Research Establishment for Applied Science (FGAN), 53343 Wachtberg, Germany nickel@fgande ABSTRACT This section gives a short survey of the principles and the terminology of phased array radar

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CHAPTER Introduction to Radar Systems and Signal Processing

2 Chapter One Introduction to Radar Systems and Signal Processing 3 $2R/c$; thus, if $A(t) > T(t)$ at some time delay t_0 after a pulse is transmitted, it is assumed that a target is present at range $R = ct_0$ (11) where c is the speed of light 1 Once an object has been detected, it may be desirable to track its location or velocity A monostatic radar ...

Radar Fundamentals - Faculty

Radar Fundamentals 2 Overview • Introduction • Radar functions • Antennas basics paths exist between a radar and target, then the total signal at a location is the sum (superposition principle) • Factors have been added for processing ...

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Christos Ilioudis University of Strathclyde

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