NPTEL Video Course - Electrical Engineering - NOC:Principles and Techniques of Modern Radar Systems

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Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Historical Development and Application
Lecture 2 - Radar Bands and System Modeling
Lecture 3 - Radar Equation
Lecture 4 - Some Basic Concepts of Pulsed Radar
Lecture 5 - Some Basic Concepts of Pulsed Radar (Continued...)
Lecture 6 - Some Basic Concepts of Pulsed Radar (Continued...)
Lecture 7 - Some Basic Concepts of Pulsed Radar (Continued...)
Lecture 8 - Tutorial Problems on Basic Concepts of Radar - Part I
Lecture 9 - Tutorial Problems on Basic Concepts of Radar - Part II
Lecture 10 - CW Radar
Lecture 11 - CW Radar Mathematical Model and Applications
Lecture 12 - FM-CW Radar
Lecture 13 - Double Frequency CW Radar
Lecture 14 - Pulsed Radar
Lecture 15 - MTI Filter
Lecture 16 - Clutter and Single DLC
Lecture 17 - Double DLC and Recursive MTI Filter
Lecture 18 - Multiple prf MTI Radar
Lecture 19 - Multiple prf MTI Radar and Clutter Attenuation
Lecture 20 - MTI Improvement Factor
Lecture 21 - Tutorial Problems on CW and Pulsed Radar - Part I
Lecture 22 - Tutorial Problems on CW and Pulsed Radar - Part II
Lecture 23 - Pulsed Doppler Radar
Lecture 24 - Pulsed Doppler Radar (Continued...) and Search Radar
Lecture 25 - Tracking Radar
Lecture 26 - Tracking Radar (Continued...)
Lecture 27 - Tracking Radar (Continued...)
Lecture 28 - Tracking Radar (Continued...)
Lecture 29 - Tracking Radar (Continued...)

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Lecture 30 - Tracking Radar (Continued...)
Lecture 31 - Tracking Radar (Continued...)
Lecture 32 - Tutorial Problems on Search and Tracking Radar
Lecture 33 - Detection in Radar Receiver
Lecture 34 - Detection in Radar Receiver (Continued...)
Lecture 35 - Detection in Radar Receiver (Continued...)
Lecture 36 - Detection in Radar Receiver (Continued...)
Lecture 37 - Detection in Radar Receiver (Continued...)
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Lecture 39 - Detection in Radar Receiver (Continued...)
Lecture 40 - Detection in Radar Receiver (Continued...)
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Lecture 42 - Detection in Radar Receiver (Continued...)
Lecture 43 - Detection in Radar Receiver (Continued...)
Lecture 44 - Detection in Radar Receiver (Continued...)
Lecture 45 - Detection in Radar Receiver (Continued...)
Lecture 46 - Detection in Radar Receiver (Continued...)
Lecture 47 - Tutorial Problems on Detection in Radar Receiver
Lecture 48 - SAR Processing
Lecture 49 - SAR Processing (Continued...)
Lecture 50 - SAR Processing (Continued...)
Lecture 51 - SAR Processor
Lecture 52 - Tutorial
Lecture 53 - Statistical Detection Theory
Lecture 54 - Statistical Detection Theory (Continued...)
Lecture 55 - Statistical Detection Theory (Continued...)
Lecture 56 - Statistical Detection Theory (Continued...)
Lecture 57 - Statistical Detection Theory (Continued...)
Lecture 58 - Tutorial
Lecture 59 - Ground Penetrating Radar
Lecture 60 - GPR Measurements and Microwave Tomography
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