

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Civil Engineering - NOC:Remote Sensing: Principles and Applications

Subject Co-ordinator - Prof. Eswar Rajasekaran

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction to RS and EMR
Lecture 2 - Introduction to EMR
Lecture 3 - Basic Laws of RS
Lecture 4 - Properties of EMR - Part 1
Lecture 5 - Properties of EMR - Part 2
Lecture 6 - Interaction of EMR with atmosphere
Lecture 7 - Radiometry - Part 1
Lecture 8 - Radiometry - Part 2
Lecture 9 - Radiometry - Part 3
Lecture 10 - Reflectance, albedo and related quantities
Lecture 11 - Interaction of EMR with terrain features - Part 1
Lecture 12 - Interaction of EMR with terrain features - Part 2
Lecture 13 - Radiation reaching sensor - Part 1
Lecture 14 - Radiation reaching sensor - Part 2
Lecture 15 - RS data: From Radiance to reflectance - Part 1
Lecture 16 - RS data: From Radiance to reflectance - Part 2
Lecture 17 - RS data: From Radiance to reflectance - Part 3
Lecture 18 - RS image acquisition and RS systems - Part 1
Lecture 19 - RS image acquisition and RS systems - Part 2
Lecture 20 - RS image acquisition and RS systems - Part 3
Lecture 21 - RS image acquisition and RS systems - Part 4
Lecture 22 - RS image acquisition and RS systems - Part 5
Lecture 23 - RS image acquisition and RS systems - Part 6
Lecture 24 - RS image acquisition and RS systems - Part 7
Lecture 25 - RS image acquisition and RS systems - Part 8
Lecture 26 - RS image acquisition and RS systems - Part 9
Lecture 27 - Spectral Properties of few common earth features in the Visible, NIR and SWIR bands - Part 1
Lecture 28 - Spectral Properties of few common earth features in the Visible, NIR and SWIR bands - Part 2
Lecture 29 - Spectral Properties of few common earth features in the Visible, NIR and SWIR bands - Part 3

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- Lecture 30 - Spectral Properties of few common earth features in the Visible, NIR and SWIR bands - Part 4
- Lecture 31 - Spectral Properties of few common earth features in the Visible, NIR and SWIR bands - Part 5
- Lecture 32 - Spectral Properties of few common earth features in the Visible, NIR and SWIR bands - Part 6
- Lecture 33 - Spectral Properties of few common earth features in the Visible, NIR and SWIR bands - Part 7
- Lecture 34 - Spectral Indices
- Lecture 35 - Thermal Infrared Remote Sensing - Part 1
- Lecture 36 - Thermal Infrared Remote Sensing - Part 2
- Lecture 37 - Thermal Infrared Remote Sensing - Part 3
- Lecture 38 - Thermal Infrared Remote Sensing - Part 4
- Lecture 39 - Thermal Infrared Remote Sensing - Part 5
- Lecture 40 - Passive Microwave Remote Sensing - Part 1
- Lecture 41 - Passive Microwave Remote Sensing - Part 2
- Lecture 42 - Passive Microwave Remote Sensing - Part 3
- Lecture 43 - Passive Microwave Remote Sensing - Part 4
- Lecture 44 - Active microwave Remote Sensing - Radar - Part 1
- Lecture 45 - Active microwave Remote Sensing - Radar - Part 2
- Lecture 46 - Active microwave Remote Sensing - Radar - Part 3
- Lecture 47 - Active microwave Remote Sensing - Radar - Part 4
- Lecture 48 - Active microwave Remote Sensing - Radar - Part 5
- Lecture 49 - Active microwave Remote Sensing - Radar - Part 6
- Lecture 50 - Platforms for remote sensing observations - Part 1
- Lecture 51 - Platforms for remote sensing observations - Part 2
- Lecture 52 - Platforms for remote sensing observations - Part 3
- Lecture 53 - Platforms for remote sensing observations - Part 4
- Lecture 54 - Platforms for remote sensing observations - Part 5
- Lecture 55 - Platforms for remote sensing observations - Part 6
- Lecture 56 - LIDAR - Part 1
- Lecture 57 - LIDAR - Part 2
- Lecture 58 - LIDAR - Part 3
- Lecture 59 - RS data, data portals and processing tools - Part 1
- Lecture 60 - RS data, data portals and processing tools - Part 2
- Lecture 61 - RS data, data portals and processing tools - Part 3
- Lecture 62 - Land use, land cover monitoring and change detection - Part 1
- Lecture 63 - Land use, land cover monitoring and change detection - Part 2
- Lecture 64 - Application of RS in water resources management - Part 1
- Lecture 65 - Application of RS in water resources management - Part 2
- Lecture 66 - Application of RS in water resources management - Part 3
- Lecture 67 - Application of RS in water resources management - Part 4