

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

NPTEL Video Course - Biotechnology - NOC: Fundamentals of Micro and Nanofabrication

Subject Co-ordinator - Prof. Shankar Selvaraja

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction
Lecture 2 - Substrate
Lecture 3 - Substrate (Continued...)
Lecture 4 - Introduction to cleanroom
Lecture 5 - Contamination and surface cleaning
Lecture 6 - Advanced cleaning techniques
Lecture 7 - Defects
Lecture 8 - Diffusion
Lecture 9 - Diffusion - Advanced Concepts
Lecture 10 - Ion Implantation
Lecture 11 - Ion Implantation (Continued...)
Lecture 12 - Native Films
Lecture 13 - Native Films
Lecture 14 - Native Films
Lecture 15 - Methods and Some Definitions
Lecture 16 - Chemical Vapor Deposition
Lecture 17 - Chemical Vapor Deposition
Lecture 18 - Chemical Vapor Deposition
Lecture 19 - Chemical Vapor Deposition
Lecture 20 - Chemical Vapor Deposition
Lecture 21 - Atomic Layer Deposition
Lecture 22 - Atomic Layer Deposition (Continued...)
Lecture 23 - Physical Vapor Deposition
Lecture 24 - Physical Vapor Deposition
Lecture 25 - Physical Vapor Deposition
Lecture 26 - Metallization
Lecture 27 - Metallization
Lecture 28 - Pattern Transfer Basics
Lecture 29 - Optical lithography basics

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- Lecture 30 - Optical lithography basics
- Lecture 31 - Optical Lithography
- Lecture 32 - Optical Lithography
- Lecture 33 - Projection Lithography
- Lecture 34 - Projection Lithography
- Lecture 35 - Optical lithography
- Lecture 36 - Optical Lithography
- Lecture 37 - Lithography process technology glossary
- Lecture 38 - Optical Lithography
- Lecture 39 - Electron beam lithography
- Lecture 40 - Electron beam lithography
- Lecture 41 - Emerging lithography techniques
- Lecture 42 - Etching Figures of Merit
- Lecture 43 - Wet etching Basics
- Lecture 44 - Wet Etching Recipes
- Lecture 45 - Wet Etching Recipes
- Lecture 46 - Dry etch
- Lecture 47 - Dry etch
- Lecture 48 - Dry etch
- Lecture 49 - Dry etch
- Lecture 50 - Dry etch
- Lecture 51 - Chemical Mechanical Polishing (CMP)
- Lecture 52 - Chemical Mechanical Polishing (CMP)
- Lecture 53 - Design for Manufacturability - 1
- Lecture 54 - Design for Manufacturability - 2
- Lecture 55 - Design for Manufacturability
- Lecture 56 - Process integration
- Lecture 57 - PV integration
- Lecture 58 - CMOS integration
- Lecture 59 - Lab demo
- Lecture 60 - Lab demo
- Lecture 61 - CMOS process for photonics application