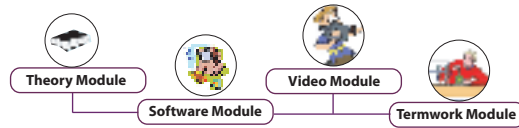


Nano Technology



System Requirement:- IBM-PC Compatible with Window-OS, 128 MB RAM/Multimedia Kit

Theory module

Features : Theory, Figures, Photographs, Animations with controller, Highlighter tool, Note creation facility, Systematic page navigation, Printing facility, Access to Videos at appropriate locations.

List of Topics

The Guide to Nanotechnology



Grasping the Essence of Nanotechnology
Finding out what it is
Why you want nanotechnology in your life
You say you want a revolution?
Knowing what to expect (and not expect), The nanotech industry
Battle of the bubbles: Nanotech versus Internet

Nano in Your Life

Going from Lab to Factory to Home, What's a Kevlar?
Looking at Ethics and Society, Possible harm from nanomaterials
Encountering a Nano Divide?

Gathering the Tools of the Trade

Picking Apart Objects with Spectroscopy
Infrared (IR) spectroscopy: Feel the heat
Raman spectroscopy: Where's the energy?
UltraViolet-Visible spectroscopy: Who's there?

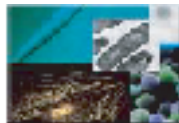


Nanomaterials Galore

Hydro Carban-Based Things Relate to Nanotechnology=
Delocalizing with benzene
Letting things slide with graphite

Adding Strength with Composites

Lightening the Load with Nanofibers
Nanotubes, What a tangled web we weave
Putting nanofibers to use: Clothes make the man



Building a Better Digital Brain

Linking the Brain with the Computer, And Fast Is Good Because?,
End of the Transistor Road, From FETs to SETs, Fabricating new chips
Does a Nano-Size Elephant Ever Forget? , Magnetic Random-Access Memory (RAM)

Routing Information at the Speed of Light

Manipulating Light with Crystals , Getting hooked on photonics,
Controlling light: Photonic band gaps, Optical switching: Nano-defects to the rescue
Magic with Mirrors : Light-steering: Nanotechnology at the wheel ,
Mirror, Mirror on the wall / Nano's the sharpest image of all.

Nano-fying Electronics

Lighting Up Tomorrow: Making quantum leaps with quantum dots,
Getting light from nanotubes , Sensing Your Environment, Detecting chemicals
Biosensors.

Biomedical Application

Drugs, Drugs Delivery, Photodynamics Therapy, Molecular Motors
Neuro-Electronic Interfaces, Protein Engineering
Shedding new light on cell: Nanoluminescent

Getting Energy and a Cleaner Environment with Nanotech

The Energy Challenge : Using Nanotechnology to Make Solar Cells Affordable
Solar-cell sticker shock , The potential of nano solar cells,
How, exactly, do nano solar cells get built , Making Hydrogen Fuel Cells
Using Nanotechnology to Energize Batteries
Using Nanotechnology to Reduce Energy Consumption