Nano Technology

The Only way to predict Future is to Invent

Nanotechnology is predicated to spark a series of industrial revolutions in the next two decades that will transform our lives to far greater extent than silicon microelectronics did in the 20th century. This transformation will change our life again but different.

Nanotechnology involves development of materials and even complete system at atomic, molecular and even micro molecular level in the dimension of approximately   1 500 nanometer.

A short summary of what molecular technology will mean is thorough and inexpensive control of the structure of matter. Pollution, physical disease and material poverty all stem from poor control of matter. The main reason to pay attention to nanotechnology now, before it, exists, is to get ahead start in understand it and what to do about it. Nanotechnology will be a great breakthrough in technological revolution.

In it we examine an emerging technology that has the promise to become core to homeland security. We will look at the Nanotechnology will have in fight against terrorism? Nano Fabrics, Camouflages, Smart Sensors, Bio Sensors, Bullet proof vests, Bomb resistant containers and builders. In medical field it will be contributing Biochips for healthcare, smart clothing, smart medicines.

Nano Unbounding the Future

The shot gun marriage of chemistry and engineering called Nanotechnology Is ushering in the era of self Replicating machinery and self Assembling consumer goods made from cheap raw atoms. The term molecular technology or molecular manufacturing all refers Nanotechnology. The Nano is Nanotechnology from Nanos, the Greek word for dwarf. Nanotechnology is molecular manufacturing or, more simply, at a time with programmed nanoscopic robot arms

Future Advances

- Molecular Food Syntheses (end of famine and starvation).
- Self assembling products, systems and materials (self repairing system).
- Computer billions of times faster (reaching the size barrier of microprocessor).
- Extremely novel inventions (self adapting fabrics).
- Realistic space travel and exploration (more economic).
- Nano Medical (Unique treatment).

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Marc Andreessen:

Marc Andreessen was a co-author of the Mosaic browser and co-creator of the Netscape browser. Most of the browsers available in the early'90s and late'80s where for UNIX machines which were expensive. This restricted the use of Web to mostly academics and engineers. Andreessen decide to develop a browser that was easier to use and more graphically rich. In 1992, Andreessen, along with fellow NCSA employee Eric Bina, created a new browser' Mosaic.

Mosaic was much more sophisticated graphically than other browser of the time. In mid 1994, Mosaic Communication Corp. was officially incorporated in Mountain view, California with Andreessen as the Vice President (Technology) of the new company. As the original Mosaic was created for the University, it had to be left back and a new product had created.

This made way for the new browser' Netscape. On October 13, 1994, Mosaic Netscape was posted for download on the Internet. Netscape ended up being freely available though in 1996, with Mosaic and the Netscape browser, Andreessen's ideas created a platform that mass-enabled individual to access the Internet. Today, Andreessen is Chairman and Co-founder of Opsware Inc, the leading provider of data center automation software.

Tips for Healthy Computing

Position Your Monitor Correctly:

Place your monitor directly in front of you, about 2 to 2 1/2feet.Away, and a title below eye level. Tilt the monitors face upward about 10 degrees. This angle will enable you to view the monitor comfortably without bending your neck. If you have vision problems that require corrective lenses, however, consult an optometrist about the best way to position your monitor.

Rest Your Eyes Occasionally:

Eyestrain develops from staring at a fixed distance for too long. Even if you cannot get up. Look around you and focus on different objects at various Distances.

Set Your Monitor for Healthy Viewing:

Even if you monitor operate at high resolution. It is not necessity the best setting for you eyes. At higher resolution text and icons appear smaller on the Screen which can lead to squinting and eyestrain.

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Rain Software

The RAIN software includes a log-in security feature to ensure that unauthorized users do not have the ability to alter data stored in the database. This log on feature is built into three areas of the RAIN software.

Reliability is paramount for an enterprise data protection system. Redundant Array of Independent Nodes (RAIN) software provides system availability in the event of a storage node failure. In RAIN enabled systems, fault tolerant information is distributed across networked storage nodes in such a way that an Axion system can remain online and available when node failures occur. In a properly configured Axion system, RAIN software can eliminate all single points of failure, providing high availability to enterprise information.

The RAIN software system consists of the following integrated programs:

RAINSTART:

RAINSTART is a custom Windows-based software program that serves as the main menu for all of the RAIN software applications. It allows a user to open RAINDIGITIZER, RAINPLOT, and RAINSHARE.

RAINDIGITIZER:

RAINDIGITIZER is a custom Windows-based software program developed for the regional Middle East rainfall-intensity database project. The program allows a user to:

- connect to a relational database of choice

- view the structure (tables and fields) of the connected database

- edit, add, or delete records in the connected database

- digitize a variety of rainfall-intensity strip chart types and store the data in raw ASCII files

- load the ASCII files into the connected database

- convert the raw digitized data to meaningful time-depth values and store these in the connected database

RAINPLOT:

RAINPLOT is a custom Windows-based software program developed for the regional Middle East rainfall-intensity database project. The program allows a user to:

- connect to a relational database of choice

- retrieve and display maximum rainfall intensities, rainfall summaries, and other

data from the connected database

- perform a wide range of statistical analyses on the retrieved data

- fit the retrieved data to theoretical probability distributions

- test the theoretical distributions for optimal fit

- automatically graph and tabulate various statistical results

- automatically create and print customized rainfall-intensity and rainfall summary reports

- Open **RAINMAP** to display various results on a map.

RAINPLOT supports a large number of statistical distributions and plotting positions, supports best-fit testing, and allows a number of rainfall summary and analyses reports and plots to be generated automatically. Specific capabilities of RAINPLOT include:

- the retrieval of annual maximum series or partial series data
- the following plotting position formats: Weibull, Cunnane, Hazen, Beard, and a general equation
- use of the following probability distributions to fit data: Normal, 2 Parameter Log Normal, 3 Parameter Log Normal, Pearson Type III, Log Pearson Type III, Gumbel Type I External, Generalized Extreme Value, Generalized Pareto by L-Moments, Gumbel by L-Moments

- tests to compare distributions for best curve fit
- customized reports and plots including: the sorting of rainstorms according to their intensity distribution and organizing them by storms, months, and years; generating intensity, duration, and frequency statistics for various periods of duration; intensity-duration-frequency (IDF) curves; and calculating the energy amount and erosivity of rain storms

RAINSHARE:

RAINSHARE is a custom Windows-based software program developed for the regional Middle East rainfall-intensity database project. The program allows a user to:

- connect to and edit data inside a relational database of choice

- automatically export part or all of a rainfall intensity database by generating *.xml files that correspond to the exported data

- Automatically import *.xml files that will regenerate part or all of a rainfall intensity database.

Top 10 signs your son is a hacker

1. Directory for his monthly book report.

2. He names Robert Morris Jr. as his "Most Admired Your phone bill lists 1,987 household lines.

3. Your son tells you that his private interview with the Secret Service agent was for a social studies class essay.

4. You receive mail addressed to Phil E. Phreak.

5. The kid cheers Lex Luthor whenever a Superman movie runs on TV.

6. The CEO of a regional Bell operating company appears on your doorstep, sobbing uncontrollably and begging forgiveness.

7. You find a copy of Phrack magazine hidden under the underwear in your son's bedroom dresser. (The Playboy magazine is next to the handheld scanner, of course.)

8. The kid asks for a Novell Access Server for his birthday.

9. The little silver-colored wheel on your electric meter spins so fast it flies off slices your neighbor's elm tree neatly in two and flattens a tire on a Chevy Monte Carlo three blocks away.

10. Your son's English teacher calls, sounding really curious, to ask why the kid selected the Oklahoma City phone American."

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