

A REVIEW OF NANO STRUCTURE WITH TWO PROBES METHOD

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Abstract: Nanotechnology has been considered engineering of significant systems. This engineering is performed at molecular level. It follows both aspects present work and concepts. Therefore it is extra advanced. Here the review of nanotechnology with two probes method has been proposed here. Nano technology is having projected capability to develop project from bottom up. These are developed today to accomplish products with high performance. There are several researchers who proposed the research work in the field of Nanotechnology Applications. Here existing researches related to nanotechnology have been discussed. This technology is based on concept of Nano arrangements of machines to explore new components from existing ones. The research would withdraw conclusion and discuss the scope of research according to results and discussion.

Keywords: Nanotechnology, Molecular Electronics, CMOS, Molecular junction



[1] INTRODUCTION

A more generalized description of Nanotechnology was subsequently established by National Nanotechnology Initiative, which defines Nanotechnology as manipulation of matter with at least one dimension sized from 1 to 100 Nanometers. This meaning mirror information that quantum mechanical result are important at this quantum realm scale, & so definition shifted from a particular technological goal to a research category inclusive of all types of research & technologies that deal with special properties of matter which occur below given size threshold. [10].

of Nanotechnology applications. Scan listings below to find an application of interest, or use navigation bar above to go directly to page discussing an application of interest.

Information Technology: Smaller, faster, more energy efficient and powerful computing and other IT based system.

Energy: More efficient and cost effective technologies for energy production

Solar cells: - Companies have developed Nanotech solar cells that could be manufactured at significantly lower cost than conventional solar cells.

Fuel cells: - Nanotechnology is being used to reduce cost of catalysts used in fuel cells to produce hydrogen ions from fuel such as methanol and to improve efficiency of membranes used in fuel cells to separate hydrogen ions from other gases such as oxygen.

Batteries: Companies are currently developing batteries using Nano materials. One such battery would be a good as new after sitting on shelf for decades. Another battery could be recharged significantly faster than conventional batteries.

Bio fuels: Nanotechnology could improve performance of catalysts used to transform vapors escaping from cars or industrial plants into harmless gasses.

Medicine: Researchers are developing customized Nano particles size of molecules that could deliver drugs directly to diseased cells in patient body. When it's perfected, this method should greatly reduce damage treatment such as chemotherapy does to a patient's healthy cells. [6]

Consumer Goods: Nanotechnology is having an impact on several aspects of food science, from how food is grown to how it is packaged.

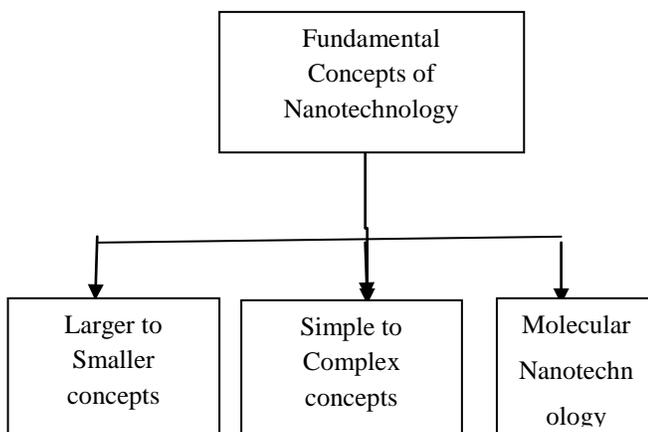


Fig 1 Fundamental Concepts of Nanotechnology

APPLICATION OF NANOTECHNOLOGY

The Understanding Nanotechnology Website is dedicated to providing clear & concise explanations

[2] CURRENT RESEARCH TRENDS