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Dear Sir / Madam,

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I am happy to inform that MASU is now publishing books / proceedings / manuals etc., with ISBN. In order to encourage and motivate the authors, MASU is honouring the authors' Royalty based on number of copies sold. In this connection, I request the contributors to send necessary proposal.

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SECRETAR Madras Agricultural Students Union Tamil Nadu Agricultural University Coimbatore - 641 003

Text Book on Insights into Fundamentals & Applications of Nanotechnology



Editors

A. Lakshmanan
C. Sharmila Rahale
Dept. of Nano Science & Technology
DNRM, TNAU, Coimbatore

Lecture wise Handouts
Question banks and
Answer keys

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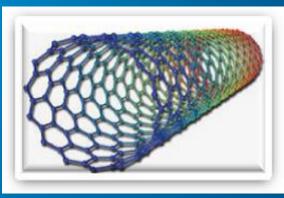
Text Book on Insights into Fundamentals & Applications of Nanotechnology

CONTENTS

- · History, definition, terminology in nano science and importance of Moore's law.
- Nanomaterials Semiconductor Diode Quantum Dots Buckyball CNT- characteristics Applications
- Polymers Types PLGA Coreshell nanoparticles Micelles characteristics Applications
- Biosensors Principle, Components, Types, Applications
- Physical synthesis of nano materials
- Chemical synthesis of nano materials
- Biological synthesis of nano materials
- Mechanical, magnetic and thermal properties of nanomaterials
- Optical and electrical properties of nanomaterials
- Scanning Electron Microscope
- Transmission Electron Microscope
- X-ray Diffraction
- Fourier Transform Infra Red Spectroscopy (FT-IR)
- Atomic Force Microscopy (AFM)
- · Applications of nanotechnology in Agriculture Nanofertilizers
- · Applications of nanotechnology in Agriculture Nano herbicides/Nano pesticides
- · Applications of nanotechnology in Agriculture Seed technology
- · Nano technology in food systems
- Applications of nanotechnology in Energy
- · Applications of nanotechnology in Environment
- · Applications of nanotechnology in Health Sciences
- Nanotoxicology







Foreword from Dr. N. Kumar, Vice Chancellor, TNAU

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