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**3.3.3** *Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during the academic year 2021-2022*

S.No	Academic Year	Page No
1	Certificate of Head of the Institution	2
2	2021-2022	3



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Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Name of the conference	National / International	ISBN/ISSN number of the proceeding
1	Dr.V.Jayaraj, Dr.M.A.Raja, S.M.Deepa, V.S.Vaisakhi	Digital Signal Processing – MATLAB based approach	NA	NA	National	978-93-5493-596-1
2	P.Parthiban, V.S.Vaisakhi	Circuit Analysis	NA	NA	National	978-93-5577-033-2
3	Dr.V.Jayaraj, M.Jeba Paulin, S.Mohan, V.Vinod Kumar	Digital Electronics (Tamil)	NA	NA	National	978-93-5526-143-4
4	Dr.V.Jayaraj, K.Sivakami, T.Prabu, K.Nagarajan	Digital Logic Design	NA	NA	National	978-93-5493-595-4
5	K.Sivakami, Deepa S M	6G with Smart Healthcare, Haptic Communication	NA	NA	International	

6	K.Nagarajan	Design of Multimodal Fusion-based Deep Learning Approach for COVID Diagnosis Using Chest X Ray Images	NA	NA	International	NA
7	Dr.V.M.M.Thilak , Dr.S.Jeevanantham, Mr.L.Franklin Arokiya Raj, Mr.S.Nishanth	NA	Investigations on Innovative solar grass cutting Machine	International Conference on "Emerging Trends in Engineering and Managment	International	978-81-955099-1-1
8	Dr.V.M.M.Thilak , Dr.S.Jeevanantham, Mr.L.Franklin Arokiya Raj, Mr.S.Nishanth	NA	Design and testing of semi-automatic harvesting machine for root vegetables	International Conference on "Emerging Trends in Engineering and Managment	International	978-81-955099-1-1
9	Dr.S.Jeevanantham, Mr.L.Franklin Arokiya Raj, Mr.S.Nishanth	Design Parameters for Transmission Systems	NA	NA	International	978-93-9113-167-8

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15	Dr.R.Anand, D. Satish Kumar,	Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network	NA	NA	International	ISBN13: 9781799896364
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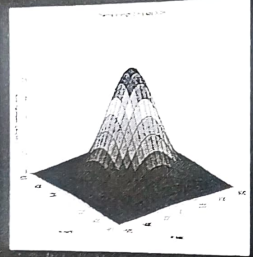
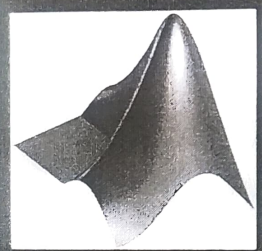
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# Digital Signal Processing

## MATLAB based Approach

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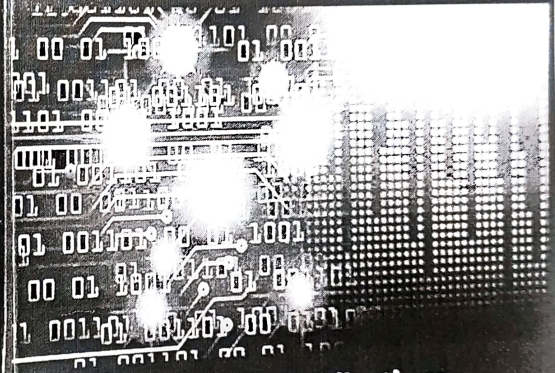
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# Circuit Analysis

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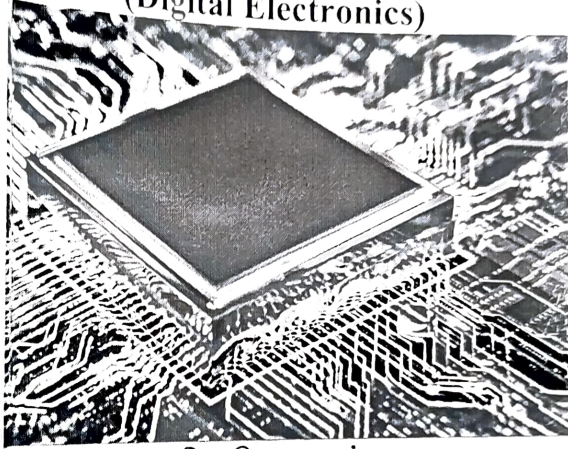
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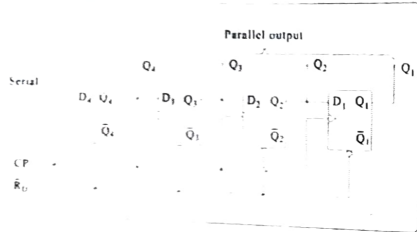
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# Digital Logic Design

This text includes the following chapters and appendices

Common Number Systems and Conversions • Operations in Binary, Octal, and Hexadecimal Systems • Sign Magnitude and Floating Point Arithmetic • Binary Codes • Fundamentals of Boolean Algebra • Minterms and Maxterms • Combinational Logic Circuits • Sequential Logic Circuits • Memory Devices • Advanced Arithmetic and Logic Operations • Introduction to VHDL



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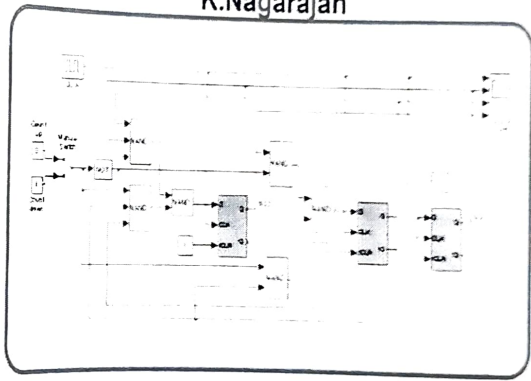
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# Digital Logic Design

Dr.V.Jayaraj  
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T. Prabu  
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# Chapter 15

## 6G With Smart Healthcare, Haptic Communication

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### ABSTRACT

*Every healthcare division should be provided with sophisticated technology to offer patients appropriate diagnostics, therapies, and a variety of health services either inside hospitals or remotely. A quick responding division is also necessary to deal with the influx of patients and inquiries throughout disasters. This would control not just the healthcare field, but also a variety of other industries. Many industries, notably healthcare, are likely to be transformed by 6G. Healthcare and hospitals will be entirely AI-driven and reliant on 6G connectivity technologies, altering our perspective of life. Nowadays, time and area seem to be the most crucial hurdles to medical systems, which 6G would be capable of overcoming. Under the human-centric perspective of 6th-generation wireless technology, this chapter examines healthcare communication and networking issues and potential strategies for early warning and quick action in crisis scenarios. This chapter also discusses the problems encountered during the deployment of 6G, as well as applicability and future research directions.*

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**Biomedical Data Analysis and Processing Using Explainable (XAI) and Responsive Artificial Intelligence (RAI)**, pp 73–90

## Design of Multimodal Fusion-Based Deep Learning Approach for COVID-19 Diagnosis Using Chest X-Ray Images

Jenyfal Sampson, K. Nagarajan & S. P. Velmurugan 

Chapter | First Online: 10 April 2022

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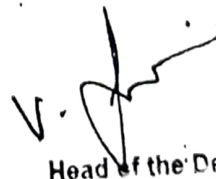
### Abstract

In recent times, COVID-19 pandemic has more influence on universal health and affects the daily lives of people all over the globe. Many of the initial screening tests are based on the detection of the genetic material of the coronaviruses, and it resulted to a minimum detection rate with high computation time. Several studies reported that the radiological images like CXR images find useful in the diagnosis process of COVID-19. In this view, this paper presents an intelligent COVID-19 diagnosis technique using multimodal fusion-based deep learning (MMFBDL) technique. The proposed



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## INVESTIGATIONS ON INNOVATIVE SOLAR GRASS CUTTING MACHINE


<sup>1</sup>Dr.S. Jeevanantham, <sup>2</sup>Dr.V.M.M.Thilak, <sup>3</sup>S. Nishanth, <sup>4</sup>L.Franklin Arokiya Raj.

<sup>1,2</sup> Associate Professor, Nehru Institute of Engineering & Technology, Coimbatore, India

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**Abstract:** A Solar grass cutter blade cutsthe lawn at even length. There are even more sophisticated devices available in every field. But less power consumption becomes essential for future. Solar grass cutter is a useful device which is very simple in construction and fabrication. It is used to maintain and upkeep lawns in gardens, schools and colleges.We have made some changes in the existing machine to make its application easier at reduced cost. Unskilled operation can operate easily and maintain the lawn very fine and uniform surface look. This machine perform multi-purpose operation at a same time with required speed & this machine is automatic which is controlled or operated by motor in which run with the help of current. Also in old methods lack of uniformity of the remaining grass. Also due to the use of engine powered machines increases the air and noise pollution also this grass cutter require maintenance.

**Keywords:** Solar grass cutter, Farming, Agriculture, Weed removal.

  
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## DESIGN AND TESTING OF SEMI-AUTOMATIC HARVESTING MACHINE FOR ROOT VEGETABLES

<sup>1</sup>Dr. V.M.M.Thilak, <sup>2</sup>Dr.S. Jeevanantham, <sup>3</sup>L.Franklin Arokiya Raj, <sup>4</sup>S. Nishanth

<sup>1,2</sup> Associate Professor, Nehru Institute of Engineering & Technology, Coimbatore, India

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**Abstract:** Root Vegetables (Example: Ginger) are the potential agricultural commodity to be manufactured in India. When the harvest comes, people still use a very simple method for harvesting ginger by using hoes, pickaxe, and other farming equipments. The farmers complain about the need of so many work forces for harvesting while the labour cost is getting increased and the time spent for harvesting process is too long. Although there is an alternative of imported ginger harvesting machines, those machines are not compatible with the farming environment in India, having a high initial and maintenance cost. This machine can be used in any farming condition in India and can be prepared at village level. This machine has three main parts namely, ginger digger, screener, and power transmission system. This project is focusing on design and fabrication ginger harvesting machine. The screener will not only separate ginger from soil but also not let the ginger get harmed. The screener also uses for collectible part, to make this machine need some power transmission system from the engine. This machine needs Auto front petrol engine with rotation speed 20 - 25 rpm approximately with the aid of gear reduction.

**Keywords:** *Ginger, Farming Environment, Digger, Screener and Power Transmission System.*



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## DESIGN PARAMETERS FOR TRANSMISSION SYSTEMS

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DOI: <https://doi.org/10.26524/royal.85>

### Synopsis

"Design Parameters for Transmission Systems" for the field of Mechanical, Production, Automobile & Mechatronics Engineering. The main purpose of this book is to discover the Design Parameters, thoughts involved in Transmission system which gather the requirements of revised Anna university syllabus in an easy way of understanding. This book is supportive to the Engineering students both under graduate and post graduate.

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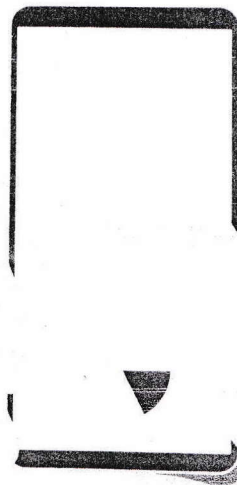
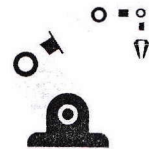
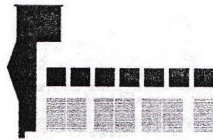
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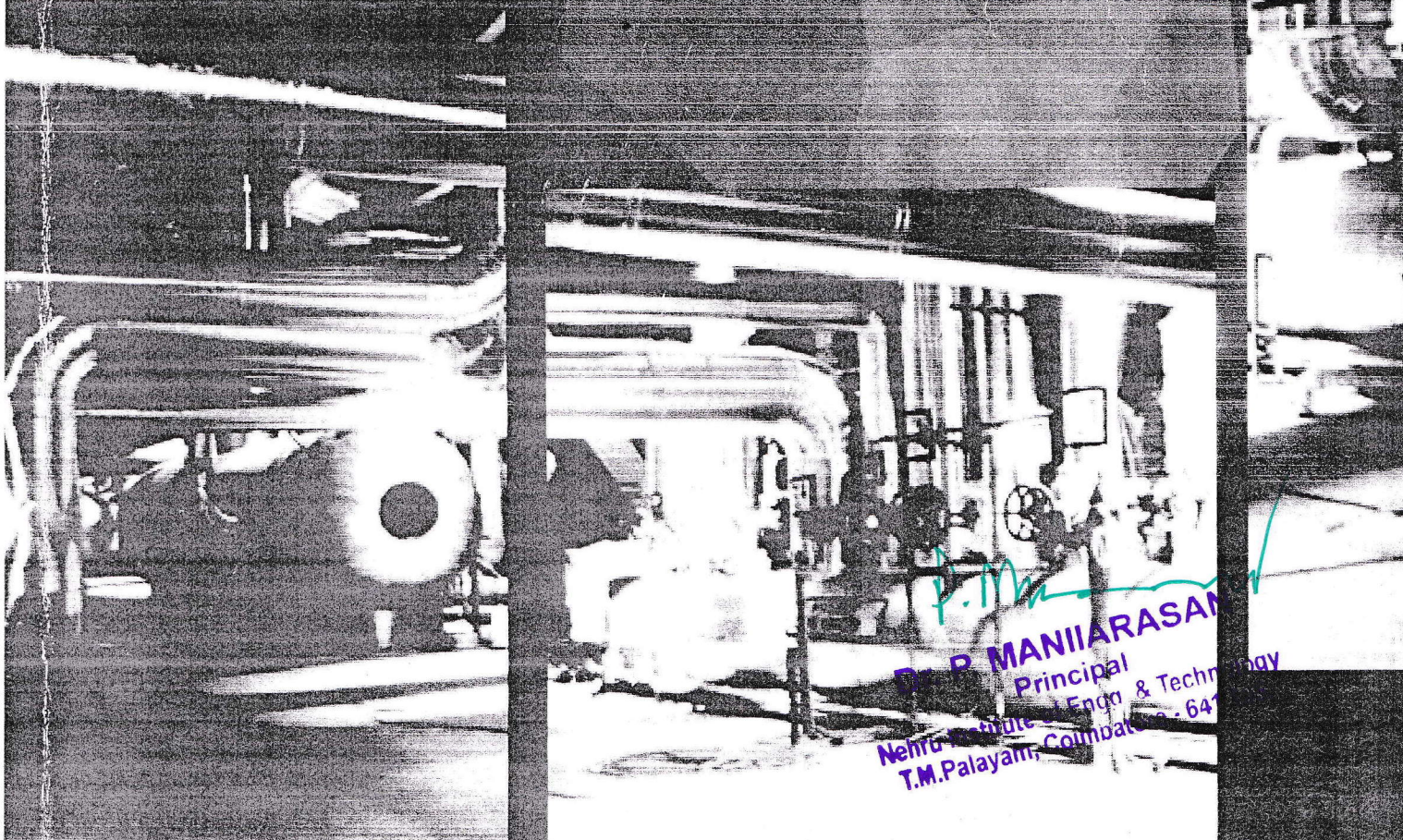


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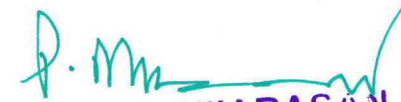


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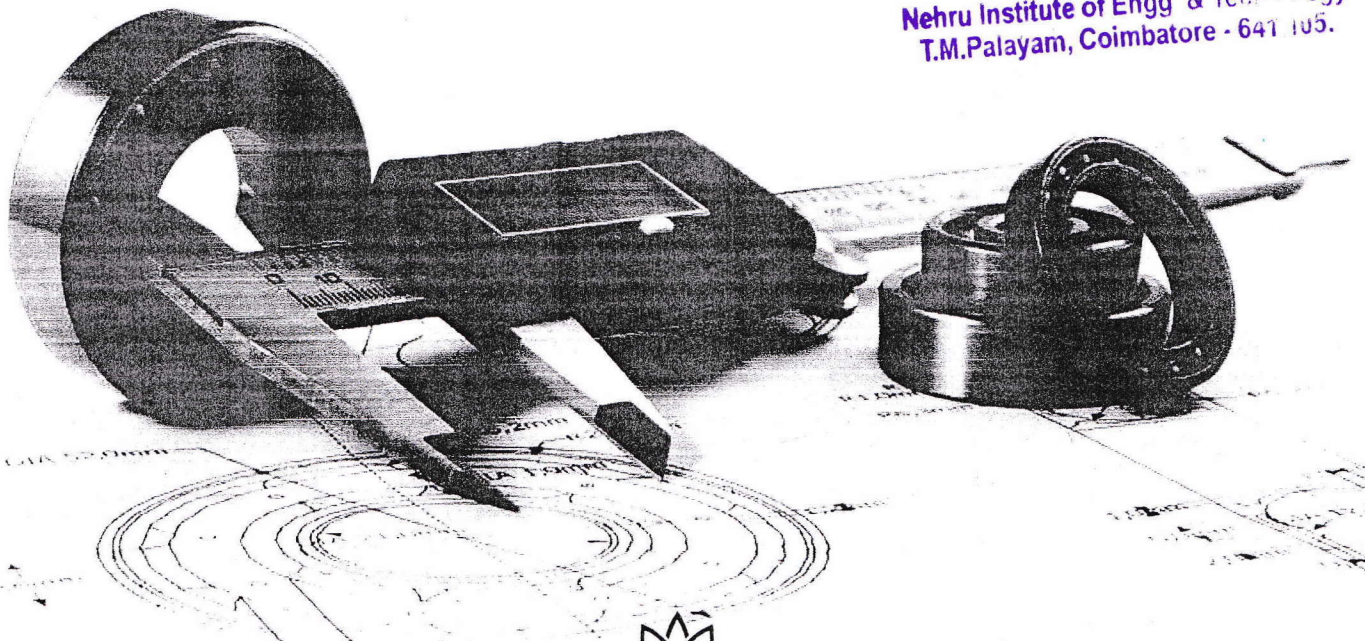
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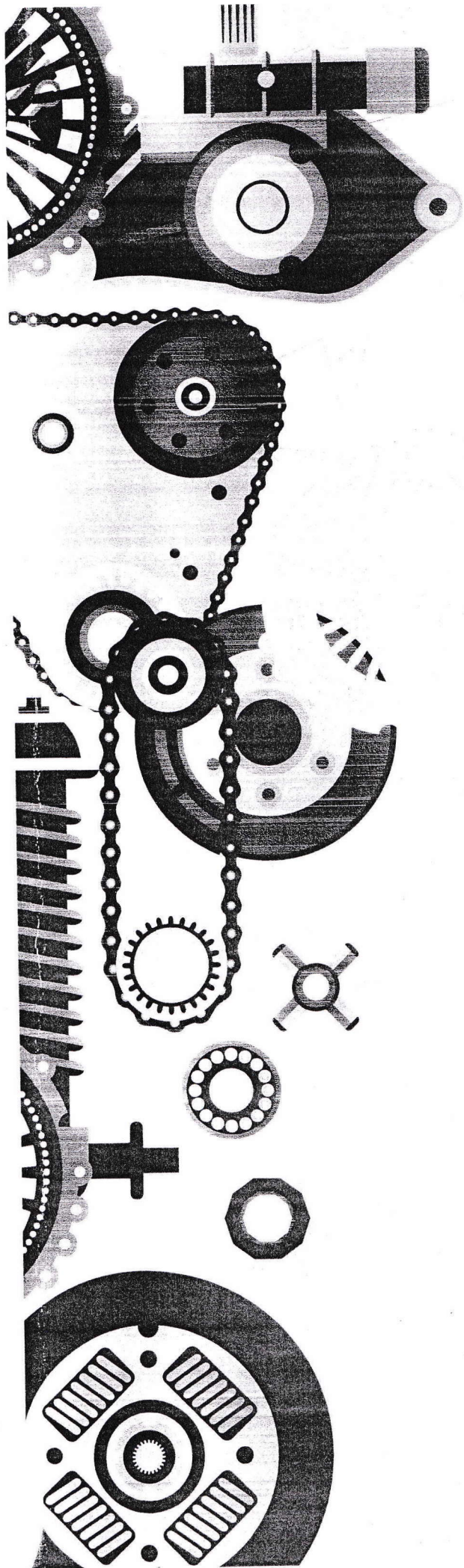
  
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# Chapter 15

## 6G With Smart Healthcare, Haptic Communication

**ArunKumar S.**

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**Sivakami K.**

*Nehru Institute of Engineering and Technology, India*

**VijayaKarthik S. V.**

*Anna University, India*

**Deepa S. M.**

*Nehru Institute of Engineering and Technology, India*

### ABSTRACT

*Every healthcare division should be provided with sophisticated technology to offer patients appropriate diagnostics, therapies, and a variety of health services either inside hospitals or remotely. A quick responding division is also necessary to deal with the influx of patients and inquiries throughout disasters. This would control not just the healthcare field, but also a variety of other industries. Many industries, notably healthcare, are likely to be transformed by 6G. Healthcare and hospitals will be entirely AI-driven and reliant on 6G connectivity technologies, altering our perspective of life. Nowadays, time and area seem to be the most crucial hurdles to medical systems, which 6G would be capable of overcoming. Under the human-centric perspective of 6th-generation wireless technology, this chapter examines healthcare communication and networking issues and potential strategies for early warning and quick action in crisis scenarios. This chapter also discusses the problems encountered during the deployment of 6G, as well as applicability and future research directions.*

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# Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network

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*Chennai Institute of Technology, India*

G. Prabhakar  
*Thiagarajar College of Engineering, India*

R. Anand  
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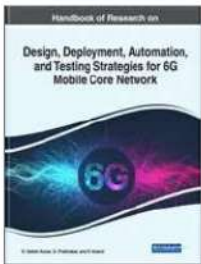
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D. Saish Kumar (Nehru Institute of Engineering and Technology , India), G. Prabhakar (Thiagarajar College of Engineering, India) and R. Anand (Nehru Institute of Engineering and Technology, India)

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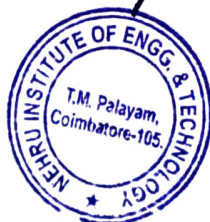
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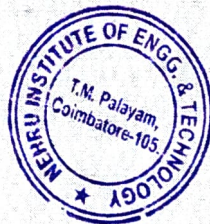
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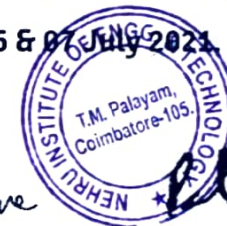
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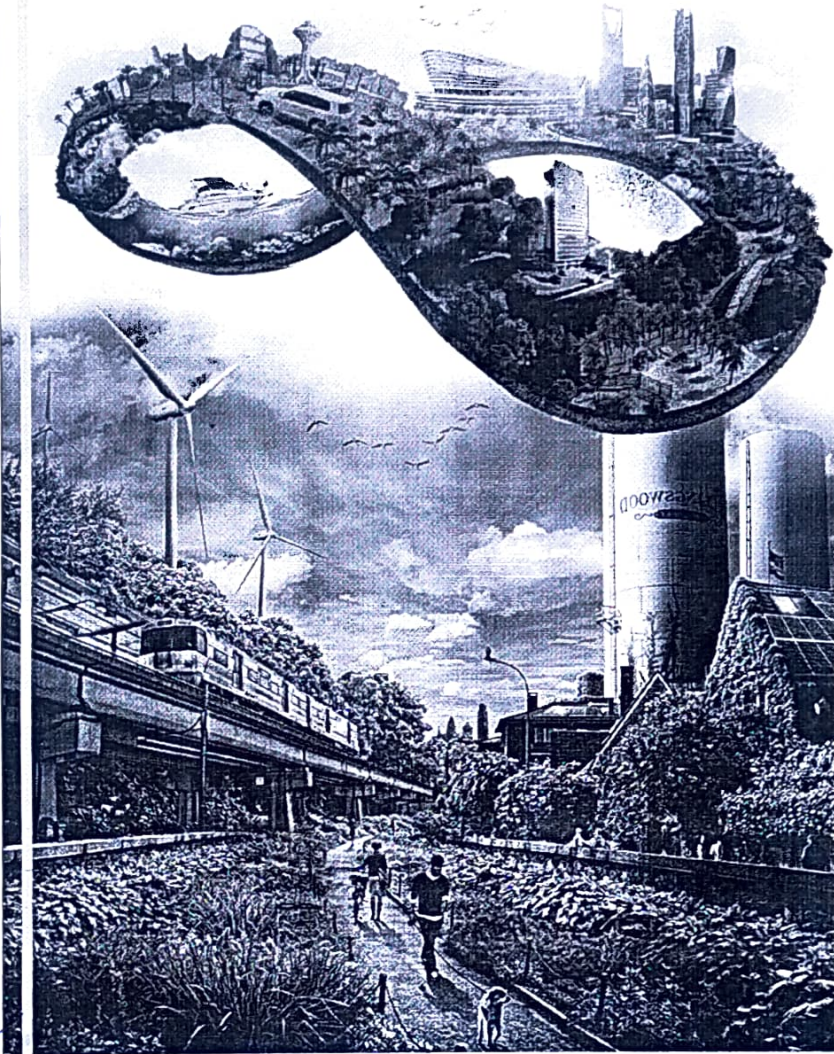
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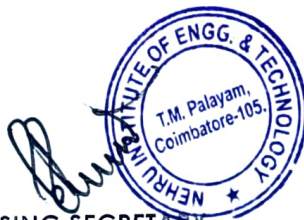
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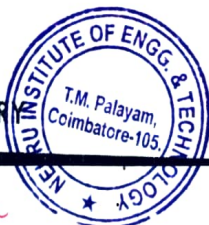
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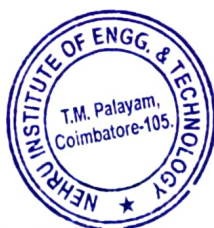
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# BS 3171 - CHEMISTRY LABORATORY

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B.E/B.Tech students  
(as per 2021 regulations)

Mrs. D. Tharani | Mrs. A. Lakshmi Priya

ISBN: 978-81-957103-7-9



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### About the author

Dr.P.Periasamy has completed his bachelor degree (B.Sc –Physics) in Periyar University, master degree (M.Sc Physics) in Annamalai University and Ph.D in Anna University, Chennai. His research area is focused on hybridized nanocomposites for electrochemical supercapacitor application. Besides, he has published more 20-research articles in reputed international journals and author of 5-book chapters, which are published in Springer and Elsevier. He is in teaching service for more than 12 years and worked in various reputed institutions. At present, the Author is working as Assistant Professor, Department of Science and Humanities (Physics) in Nehru Institute of Engineering and Technology, Coimbatore.

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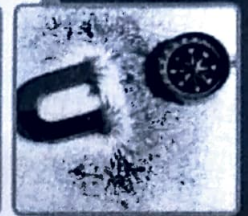
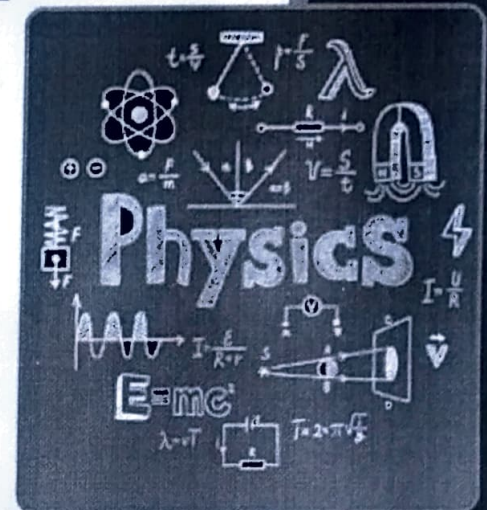
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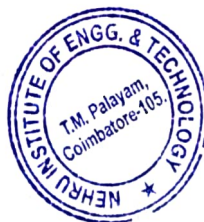


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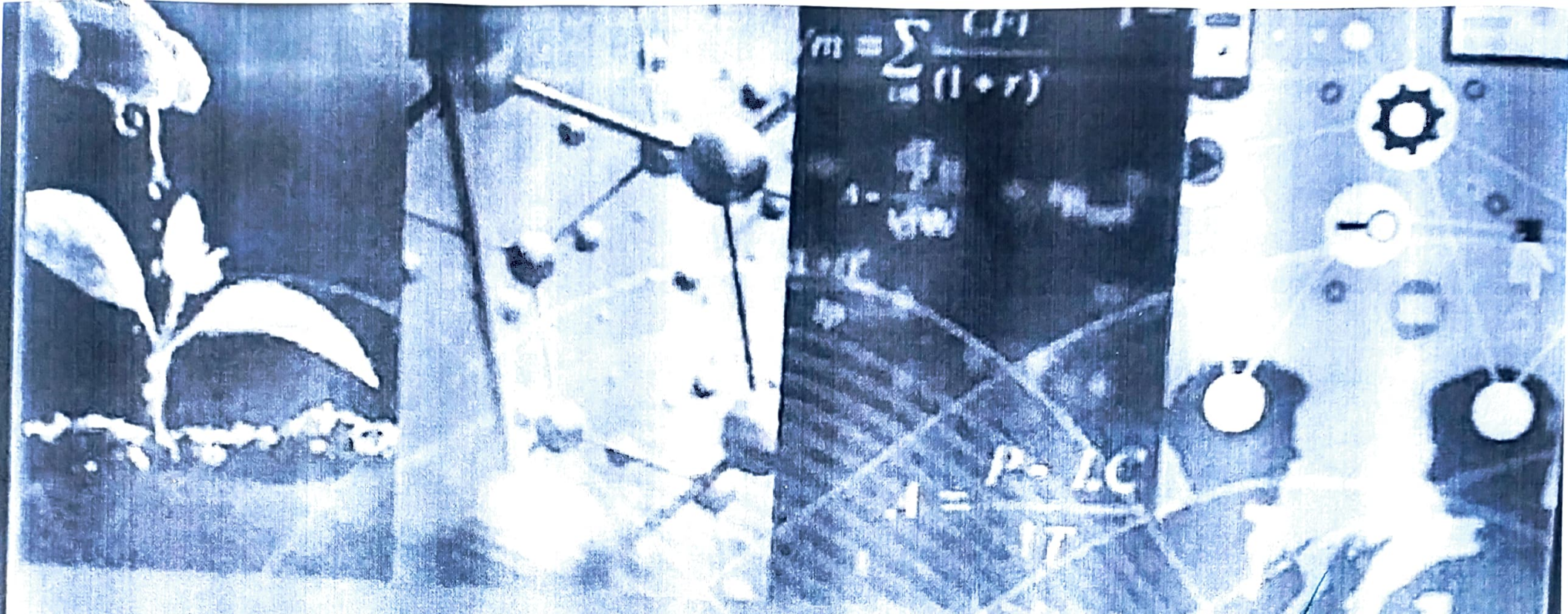


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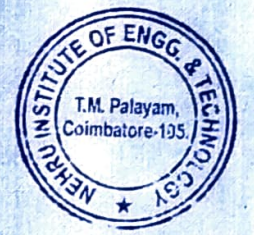
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**ENVIRONMENT, FUNCTIONAL MATERIALS,  
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**A Study on Blended learning and flipped classrooms for Constructive  
learning platform of L2 learners.**

R. Deepa

*Department of English, Nehru Institute of Engineering and Technology T.M. Palayam, Coimbatore*

Email: r.deepasripathy@gmail.com

**Abstract**

Learning plays an indispensable role and it challenges the learners from Kindergarten to College level.

The Study projects that the Blended learning and flipped Classroom which facilitate the informants in an easy tone and consume independently with the use of Technical Resources. Blended learning is an on-line resource with In-person Instruction. In Class room it is a team and project based learning. Blended learning and Flipped classroom reverse the passive listening of traditional based class room. Moreover it is a flexible and mastery based which counts on face to face with the optimization of one on one with learners. It acknowledges that some learners need more time while some takes less time and it help the learners for their betterment. The on-line resources facilitate the learners to consume at home and in the classroom the teacher is a instructor by helping the learners in doing the activities. This enables the learners –How to think and what to learn.....

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Blended learning is an on-line resource with in-person instruction. It combines the advantages of project based learning. Blended learning and Flipped classroom reverse the passive listening of traditional based class room. Moreover it is a flexible and mastery based which counts on face to face with the optimization of one on one with learners. It acknowledges that some learners need more time while some takes less time and it help the learners for their betterment. The on-line resources facilitate the learners to consume at home and in the classroom the teacher is a instructor by helping the learners in doing the activities. This enables the learners -flow to think and what to learn.....



A handwritten signature in blue ink, appearing to read "P. Mani Arasan". The signature is fluid and cursive, with a long, sweeping tail on the right side.

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# Binding Interaction of Host: Guest Complexes to DNA

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<sup>2</sup>Department of Chemistry, Centre for Nanoscience & Genomics, Karunya Institute of Technology and Sciences (Declared as Deemed-to-be-University under Sec-3 of the UGC Act, 1956), Coimbatore 641114, Tamil Nadu, India. E-mail address: sameen\_y@yahoo.co.in, drisraelenoch@gmail.com

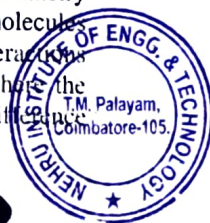
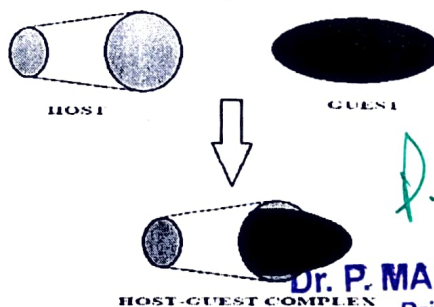
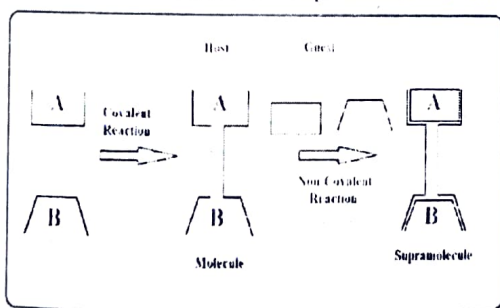
**Abstract**—DNA is a target for many therapeutic agents as it binds to DNA – interfering with protein factors involved in DNA mechanism, or cleave DNA cross-link – interfering with the cell division. Understanding the small molecule – DNA binding characteristics in the presence of molecular encapsulating agents like cyclodextrins is crucial for the prediction of binding mode – activity relationship. Although studies on interaction of small molecules with DNA in various binding modes are abundant in the literature, a book chapter, in the line that the influence of cyclodextrin in the binding of small molecules with DNA are scarce. The book chapter gives an idea on supramolecular binding, host-guest complex, and the binding interaction of small molecules to cyclodextrin and or DNA. The importance of chosen chromenone analogues, and the binding characterization techniques which can be used to characterize the small molecule-β-cyclodextrin and or DNA is presented in the chapter.

**Keywords**— DNA, host-guest complex, cyclodextrin

## 1. INTRODUCTION

### Supramolecular Binding - A Glimpse

Supramolecular binding refers to the process in which structures consisting of two or more molecules held together by inter-molecular forces [1]. This is in contrast to molecular binding, which involves the formation of new covalent bonds between the structures. The process of supramolecular binding results into Supramolecules which is also known as "Chemistry Beyond the Molecule". The different types of forces involved in the formation of supramolecules are hydrophobic, electrostatic, hydrogen bonding, Van Der Waals and  $\pi-\pi$  stacking interactions [2-3]. A key feature of formation of supramolecules is the concept of self-assembly, where the structure formation occurs spontaneously, with no control or guidance required [4]. The difference between the molecular and supramolecular binding is represented in Fig. 1:



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**Fig. 1 & 2** : A cartoonic representation of the formation of Molecule and Supramolecule, a Host-Guest complex.

Some examples of supramolecular systems of binding include biological membranes, polynuclear metal complexes, liquid crystals, molecule-based crystals and so on [5]. The simplest type of supramolecular structure is a host-guest inclusion complex, in which a small guest molecule becomes included within the hollow internal cavity of a larger, cage-like host molecule

# Chapter 7 Synthesis and Luminescent Applications of Rare-Earth-Doped Zinc Nanomaterials

From the book [Luminescence](#)

G. V. S. Subbaroy Sarma, Murthy Chavali, Periasamy Palanisamy and I. B. Shameem Banu

<https://doi.org/10.1515/9783110676457-007>

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## Abstract

Some of the luminescent substances were focused on rare earth, especially the ion-doped lanthanide as well as transition-metal ion-doped hosting system. Through different kinds, like indistinct, metallic and even narrow films, several kinds with rare-earth-doped including rare-earth-free luminescent substances were created. Under many situations, certain characteristics with luminescence depend on its form with dopant employed with their activating agent. All elements of its rare earth provide some special yet critical influence over the human lifestyle. This unfulfilled  $4f$  electron configuration of its rare-earth components allows itself to be included by generating numerous modern substances with different uses, like phosphors, magnetic substances, energy-storage components, including catalytic, according to different characteristics through luminosity, electric and magnetic fields, and telecommunications. Phosphors are mostly synthesized by chemical methods; these luminescent substances were examined for attaining creative yet alert substances including stable reaction, dry chemical, deposition and co-precipitation, oxidation and basic chemical path in several researches. A good proportion with luminescent structures depends on rare-earth particles including rare-earth-based substrate layers (that were being developed over the past couple of centuries). Most of such products have worked their path into applications. Upon utilization, rare-earth fluorescence can, across multiple situations, greatly enhance the efficiency of the products that they were used with. Luminescent substances were widely utilized in solid-state illumination and screen technologies. Solid-state illumination development will improve effectiveness but rather reduces the output of glow diodes. Luminescent compounds would also be employed by detectors for maximum temperatures, but strain measurement, which is because of their ultra-sensitivity, is essential to determine several techniques. Luminescent substances had been extensively studied across biological applications, including glowing biological substances as well as even semiconductor nanomaterials, resulting in low hazard, strong physical and mechanical flexibility, narrow illumination patterns, high luminosity spectral levels and longish luminescence decaying rates. Rare-earth-based nanoparticles show significant benefits among most usable faintly glowing nanostructures. In this chapter, we will discuss synthesis and luminescent applications of rare-earth-doped zinc nanomaterials as "luminescent materials" involving such a broad variety of disciplines connected with rare-earth metals, nanoparticles, nanostructure, compositions with crystal lattices, nanosensors for recording temperature, chemical sensors, biosensors, anti-counterfeit applications, security devices and so on.





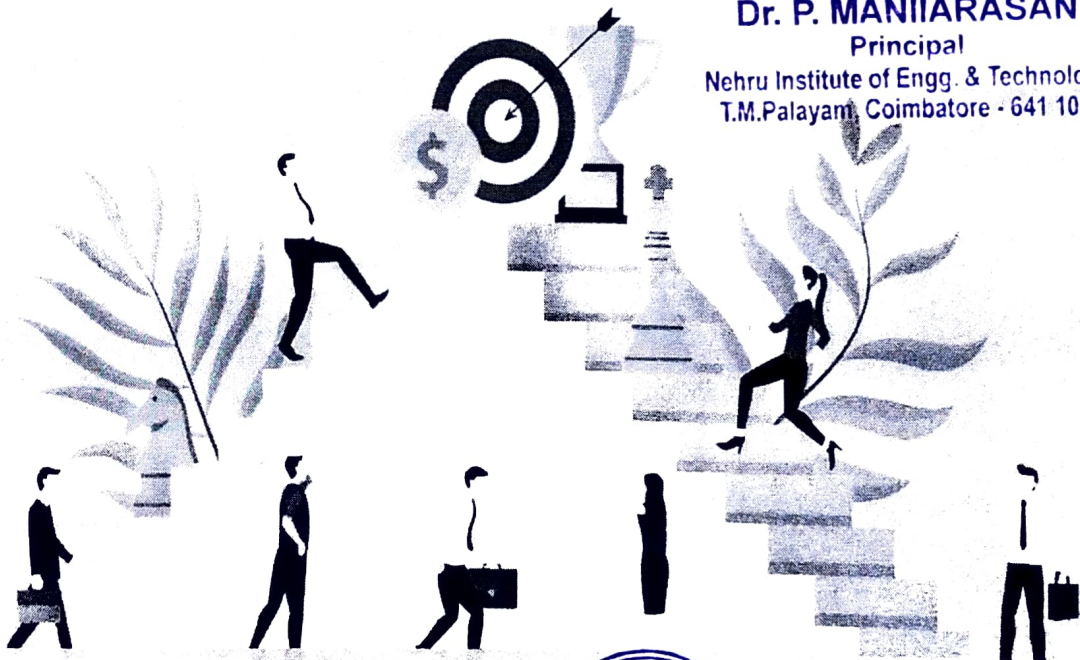
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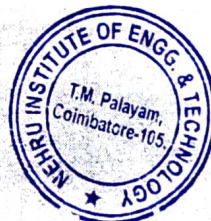
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## A Study on role of English during interviews its paths and challenges for the learners.

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### ABSTRACT

*This paper focused on need of English language for the learners during Interview and its role.*

*The students from Tamil Medium Background face lot of problems at the time of interview and struggle to answer for simple Questions raised by the Interviewers. The Interview is a turning point in one's life to lead a successful life. Therefore, this paper High-lights some tips for the students from Vernacular medium and states how to face the Interview for better career....*

**Keywords:** Confidence, continuous practice, Irksome, fear, hesitation, comfortable, answering in a logical way.



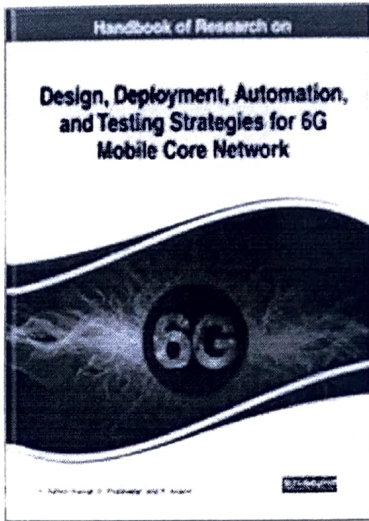
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# Evaluation of Sixth Generation 6G Wireless Networks: The Vision of Future Wireless Communication

Senthil Kumar S. (Nehru Arts and Science College, India),  
Leelavathi M. (Nehru Arts and Science College, India), Manoj  
Kumar P. K. (Nehru Arts and Science College, India) and  
Periasamy Palanisamy (Nehru Institute of Engineering and  
Technology, India)

Source Title: Handbook of Research on Design, Deployment,  
Automation, and Testing Strategies for 6G Mobile Core  
Network

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# Chapter 1

## Evaluation of Sixth Generation 6G Wireless Networks: The Vision of Future Wireless Communication

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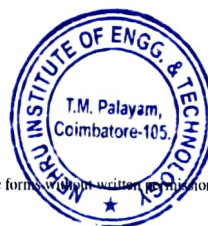
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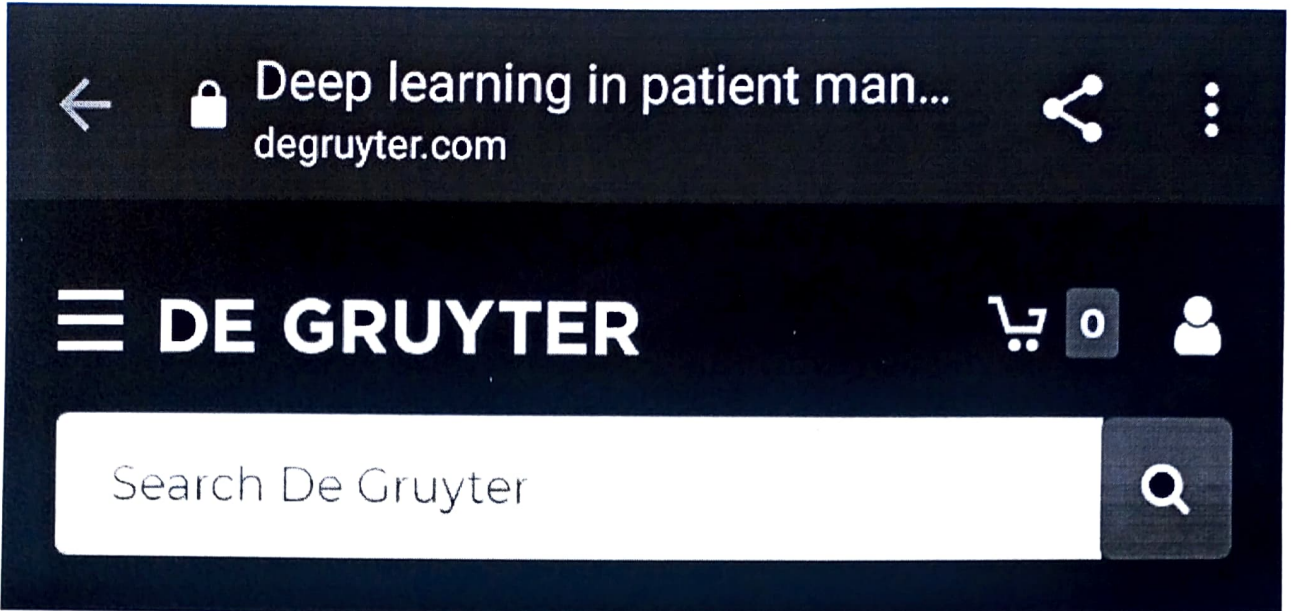
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### ABSTRACT

*Fifth-generation communications standardization has concluded, and global deployment has commenced. To maintain wireless networks' significant competitive advantage, industrial and academic collaboration has started to design the next generation of wireless communications networks called sixth generation (6G) to establish the foundation for the segmentation of communication demands in the 2030s. This study highlights the most encouraging fields of inquiry from the recent literature in familiar angles for the 6G project to support this vision. Its major contribution is to investigate the crucial difficulties and significant prospective features of 6G communications, such as (1) vision and key features, (2) research activities, (3) architecture of 6G, and (4) challenges and potential solutions. These critical research topics were thoroughly studied in terms of the motivation with their many sub-domains in order to get a precise, specific, and brief conclusion. As a result, this study will greatly contribute to the opening of new boundaries for future research initiatives.*

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# Deep learning in patient management and clinical decision making

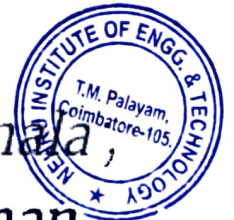
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From the book Deep Learning for Personalized Healthcare Services

*D. A. Janeera , G. Jims John Wesley ,  
P. Rajalakshmy , S. Shalini Packiam Kamala ,  
P. Subha Hency Jose and T. M. Yunushkhan*



<https://doi.org/10.1515/9783110708127-006>

## SYNTHESIS AND CHARACTERIZATION OF FeO NANOPARTICLES BY HYDROTHERMAL METHOD

K. Gurushankar<sup>1, 2, ✉</sup>, K. Chinnaiah<sup>1</sup>, Karthik Kannan<sup>3</sup>, M. Gohulkumar<sup>4</sup>  
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✉Corresponding Author: gurushankar01051987@gmail.com

### ABSTRACT

FeO nanoparticles were synthesized via hydrothermal method and calcinated at diverse temperatures (400 °C, 450 °C, and 500 °C). The prepared samples are characterized by various techniques. Crystal size obtained for different annealing temperatures is 21, 14, and 8 nm, respectively. With an increase in temperature for annealing, the intensity of peaks has increased. SEM images note that with normal morphology, the samples have spherical. The average size of particles has obtained by SEM, which are matching with crystalline size obtained by XRD. UV absorbance results at 388, 392, and 399 nm are confined to the blue emission of wavelength. The edge of the optical bandgap towards the region of moving blue wavelength, which can be recognized at higher temperatures to decrease the FeO nanoparticles bandgap.

**Keywords:** FeO Nanoparticles, Hydrothermal Method, XRD, SEM with EDX, UV-DRS

RASAYAN J. Chem., Vol. 14, No.3, 2021

### INTRODUCTION

The nanomaterials level is the best progressive at present, both in scientific knowledge and in commercial applications.<sup>1-3</sup> The enhancement of properties with potential applications, iron oxide is one of the significant pivotal roles in conducting materials today. Due to their applications, several ways have been proposed for the fabrication of FeO nanoparticles. In recent years, the methods like sol-gel method,<sup>4</sup> chemical coprecipitation methods,<sup>5</sup> flow injection methods,<sup>6</sup> sonochemical deposition methods,<sup>7</sup> electrochemical method<sup>4</sup> and hydrothermal method<sup>7</sup> are the prominent deposition methods, which are effectively useful for the synthesis of FeO. On the other hand, the significance of FeO nanostructure morphology in optical properties, and surface characteristics of nanostructure interfaces that determine nano-trapping levels. Therefore, the design and synthesis of FeO nanoparticles with different structures are very significant. Up to now, enormous research for FeO nanostructured materials with different morphology and structures synthesized in various forms such as nanoparticles,<sup>8</sup> nanorods,<sup>9</sup> and nanosheets<sup>10</sup> and their features, prospective applications studied intensive manner. Most of the above-mentioned synthesized techniques are comparatively expensive and usually need at high temperature, high sensitivity, and application of complex procedures, except the hydrothermal technique, which is more effective, low cost, and rewarding. In the present study, an attempt to made for the synthesis of FeO nanoparticles by hydrothermal method using Ferric chloride hexahydrate (FeCl<sub>3</sub>.6H<sub>2</sub>O) as a precursor and tested at various annealing temperatures for studying different characteristics.



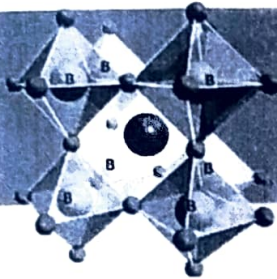
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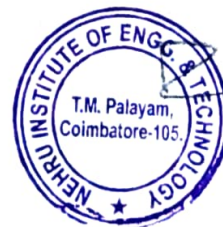
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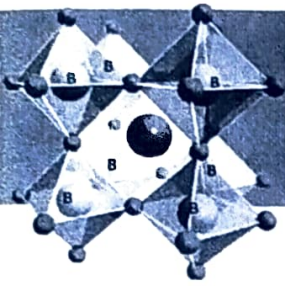


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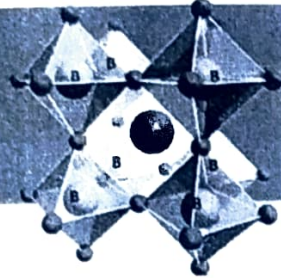
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has presented the paper entitled Microwave Assisted s-doped WO<sub>3</sub> Nanostructures for

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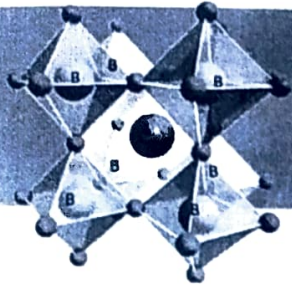
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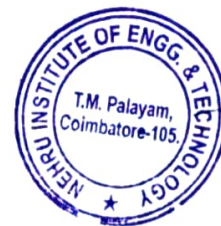
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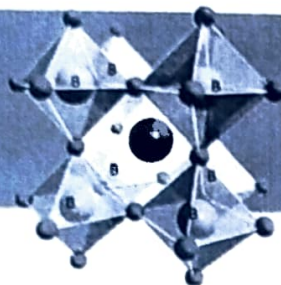
  
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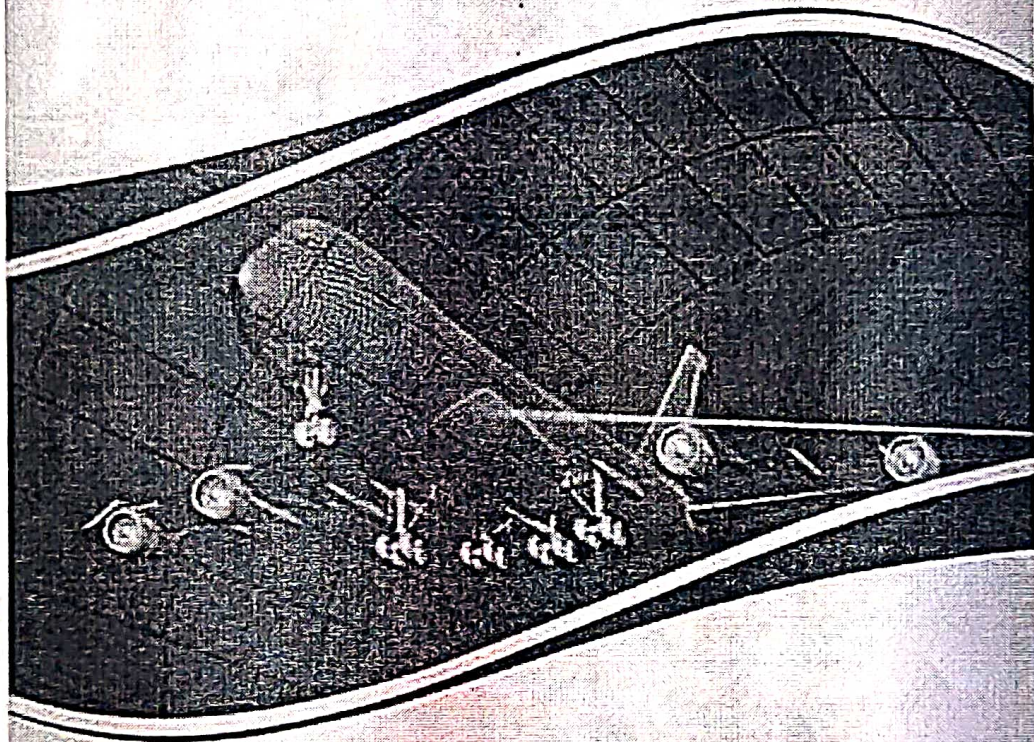


  
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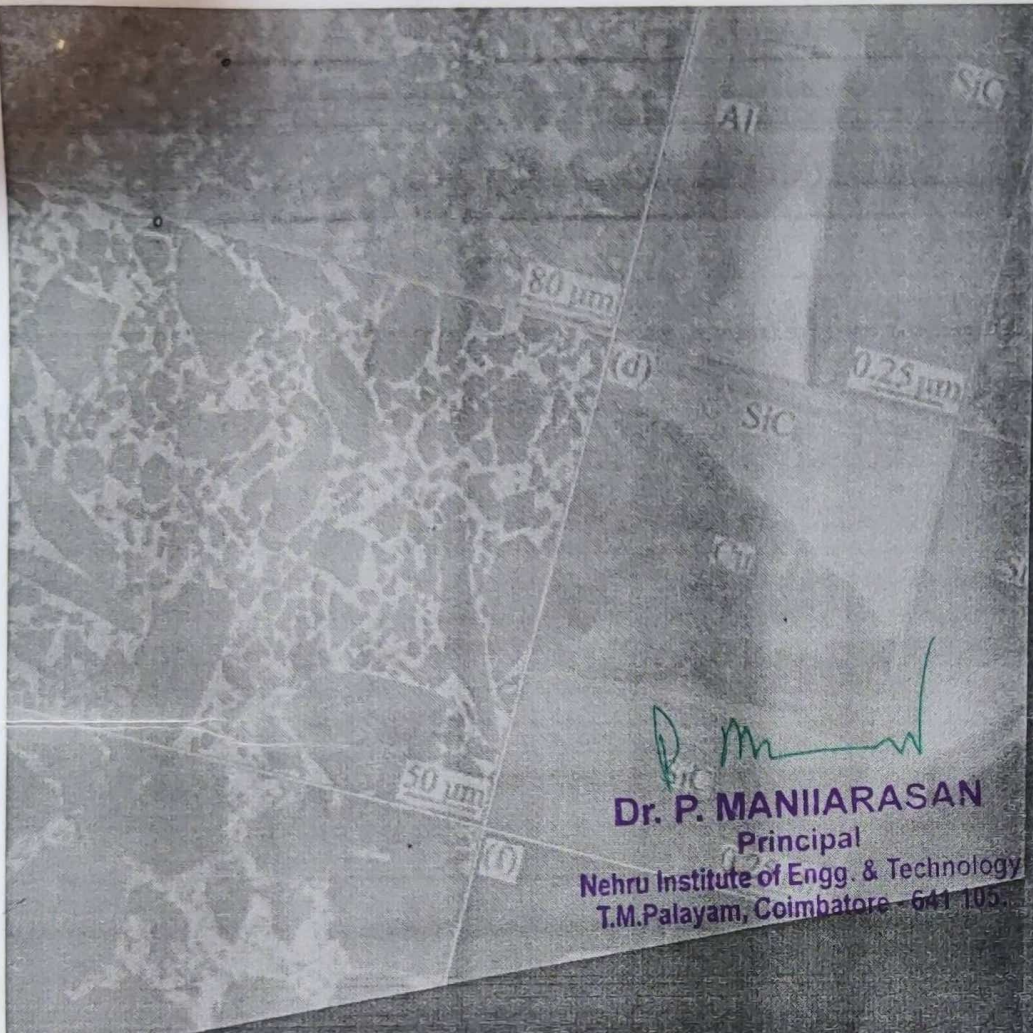


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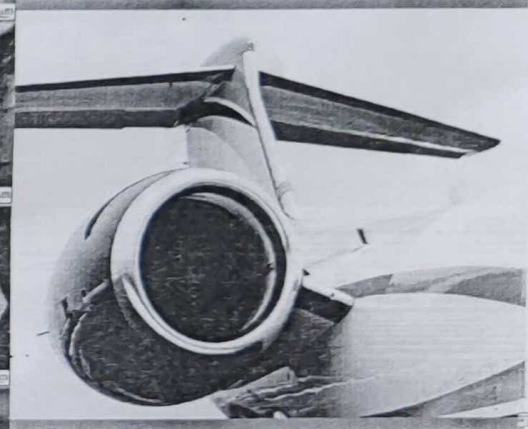
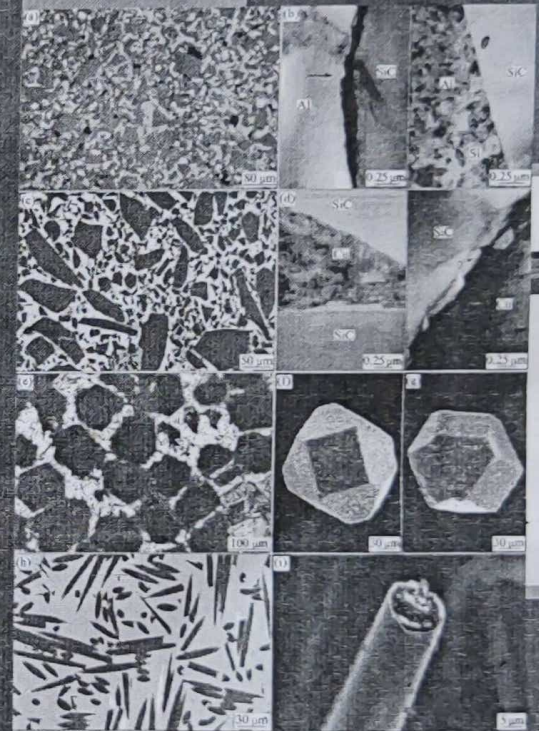
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Prof. Nagaraja T. K. did his Master of Technology in Product Design and Manufacturing, and working as Assistant Professor in the Department of Mechanical Engineering at JSS Academy of Technical Education, Bengaluru. He has 10 years of industry experience and 14 years of Teaching experience. He is the Life Member of Indian Society for Technical Education (ISTE).

Dr Kamalakanta Muduli, working as Associate Professor in Mechanical Engineering, Papua New Guinea University of Technology, Lae, Morobe Province, Papua New Guinea. He has obtained PhD from School of Mechanical Sciences, IIT Bhubaneswar, Master's degree in Industrial Engineering and has over 16 years of academic experience in Universities in India and Papua New Guinea.


Dr.M.S.Srinivasa Rao has received his Ph.D (2019) from Jawaharlal Nehru Technological University, Hyderabad and M.Tech (2009) from JNTUH College of Engineering, Hyderabad. He is working as Assistant Professor in the Department of Mechanical Engineering at VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad. He has more than 13 years of teaching and 7 years of industry experience.

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Dr Pankaj Sharma is a senior academician with rich experience of 26 yrs in Engineering Education and Administration as Principal/Director/Dean Academic/Professor. Dr. Sharma is presently working as Professor in JECRC University Jaipur. He did his M.Tech. & Ph.D. from MNIT Jaipur and B.E. from RTU Kota. He has been awarded by Vigyan Ratna award by AITMC in June 2013. He has published more than 28 papers in reputed Journals (Including SCL & Scopus) & International Conferences. His area of interest are Quality control, work study, Time study, Product design & Development, TPM, TQM, Six Sigma, Lean Manufacturing, CAM, Leadership and Design creativity.

Dr Kamalakanta Muduli, is presently working as Associate Professor in Department of Mechanical Engineering, Papua New Guinea University of Technology, Lae, Morobe Province, Papua New Guinea. He has obtained PhD from School of Mechanical Sciences, IIT Bhubaneswar, Orissa, India. He has obtained Master's degree in Industrial Engineering. Dr Muduli has over 16 years of academic experience in Universities in India and Papua New Guinea. Dr Muduli is a recipient of ERASMUS+ KA107 award provided by European Union. He has published 62 papers in peer reviewed international journals most of which are indexed in Clarivate analytics and Scopus.

Prof. Dr. B. Ramesh has 2 years of industrial experience, 16.5 years of teaching experience so far. He is currently working as professor in the department of design, institute of mechanical engineering of saveetha school of engineering, SIMATS (Deemed to be University), Chennai. His areas of specialization includes machining, process optimization, predictive modeling, composite materials, vibrational analysis, NDT, friction welding, WEDM, laser machining, surface engineering and tribology. He has published 49 research papers in International Journals, authored 1 book, 6 book chapters and 3 patents.

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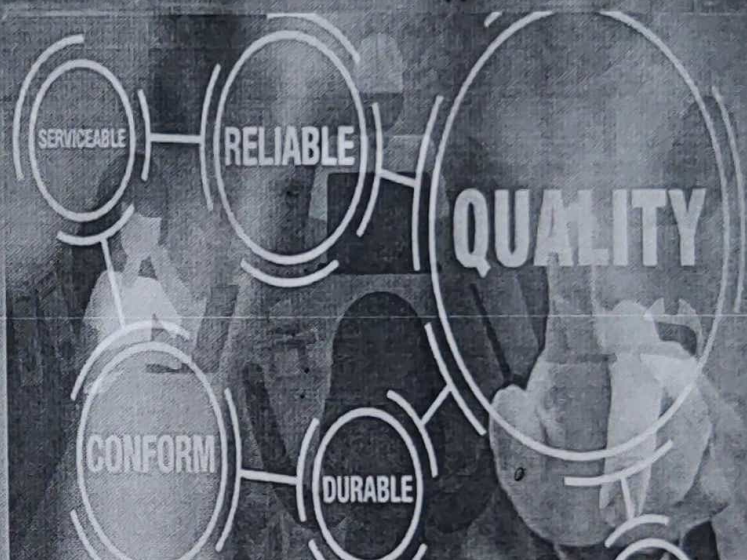
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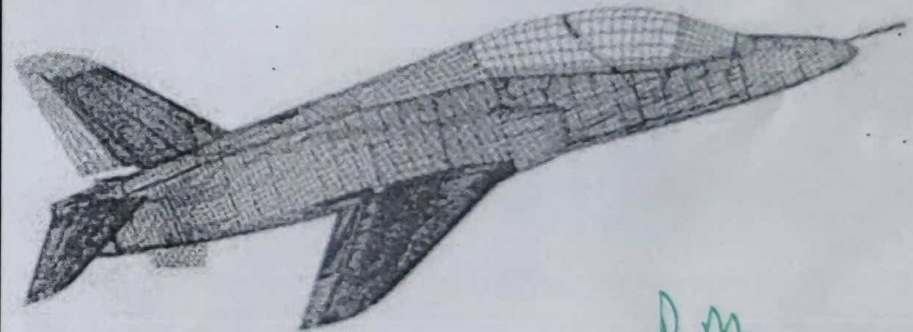
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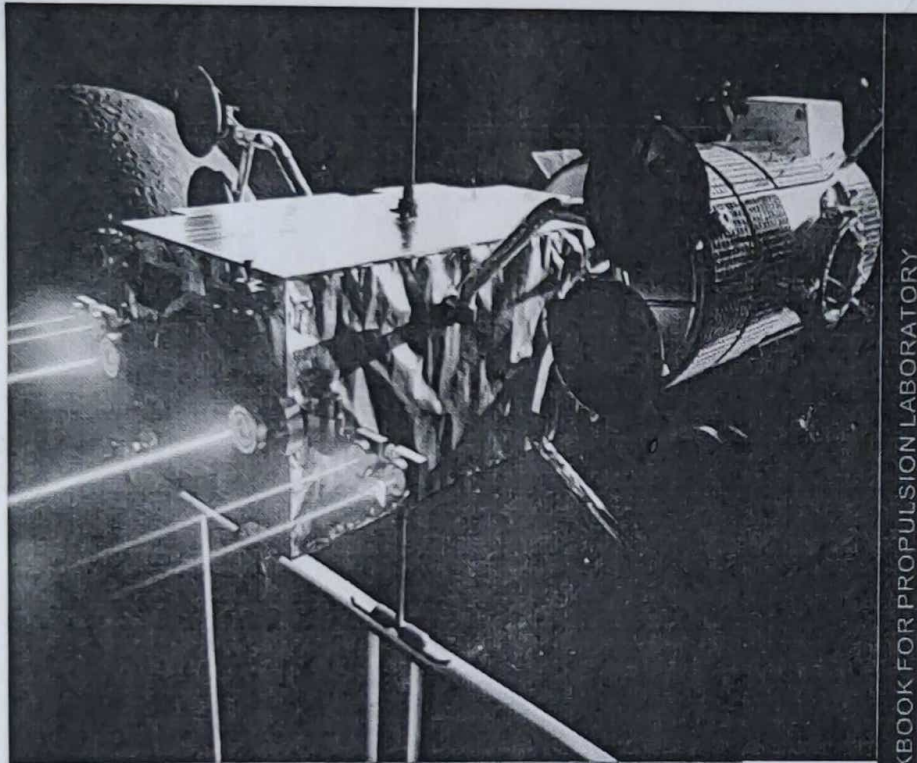
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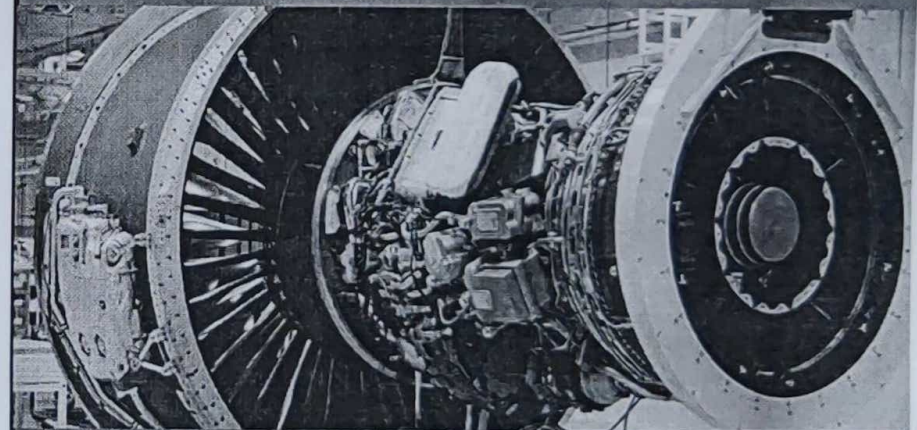


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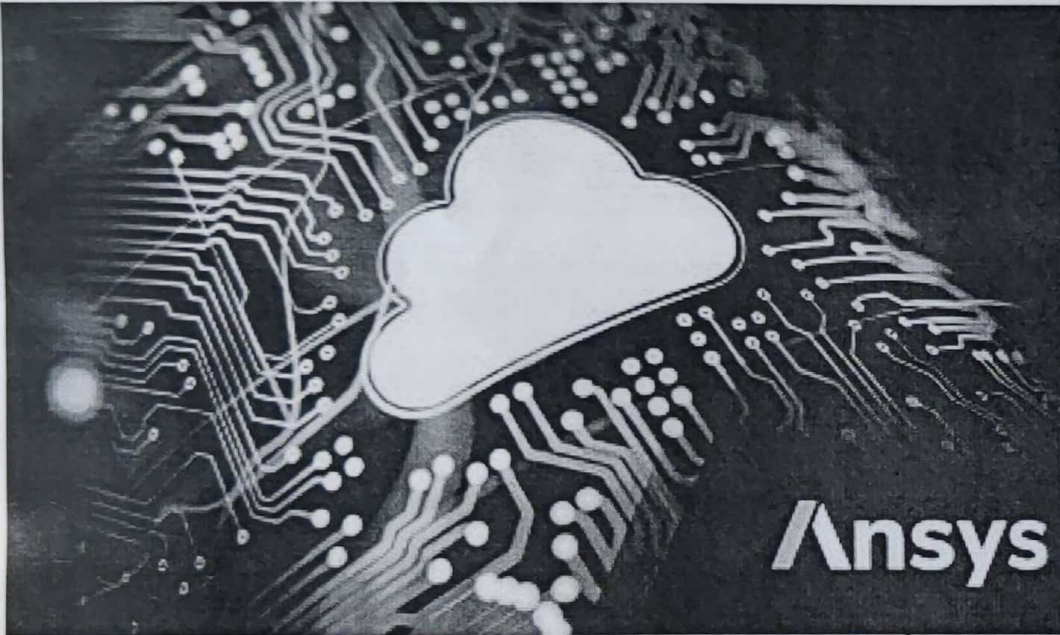
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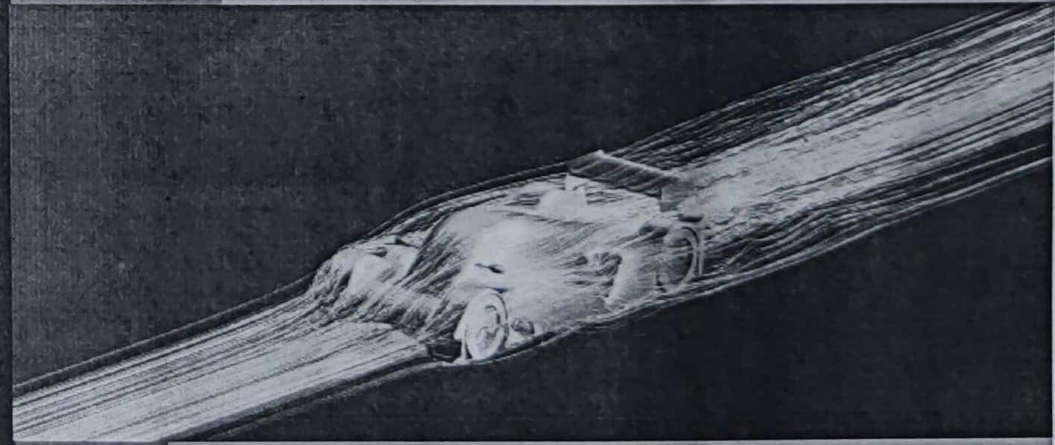
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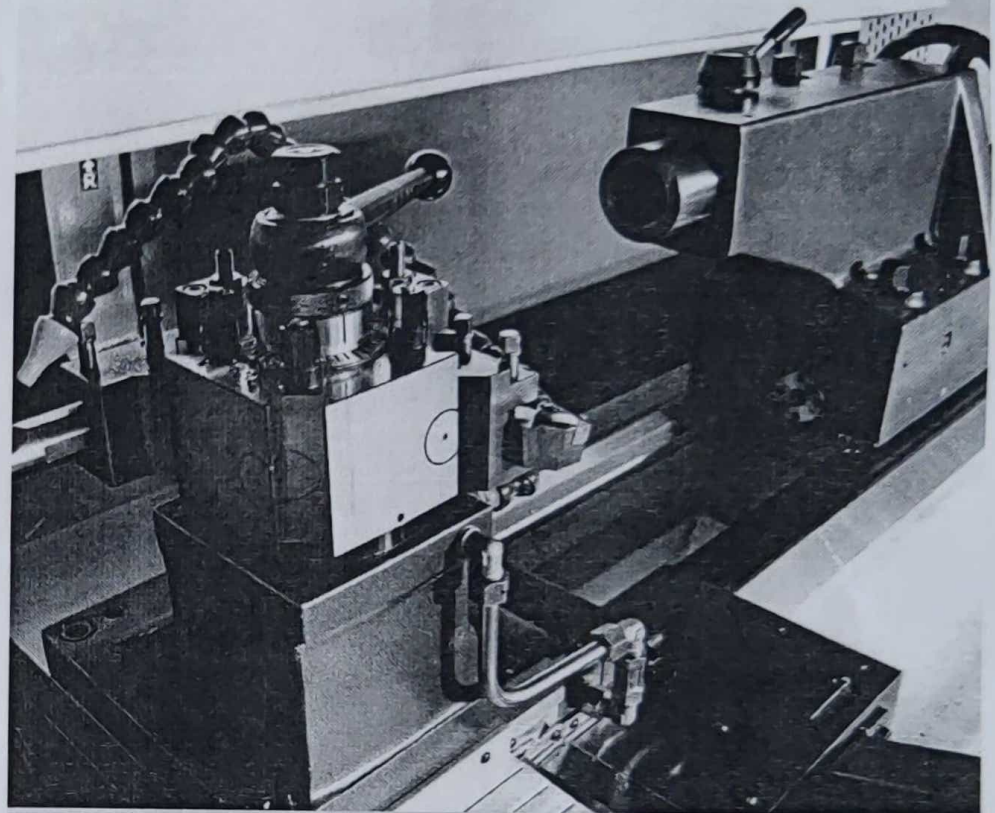
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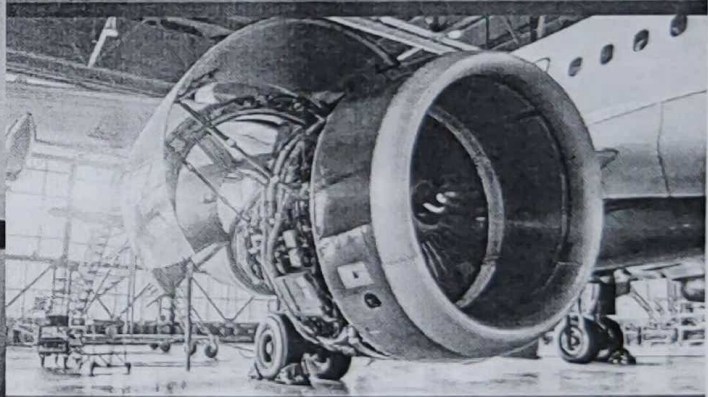
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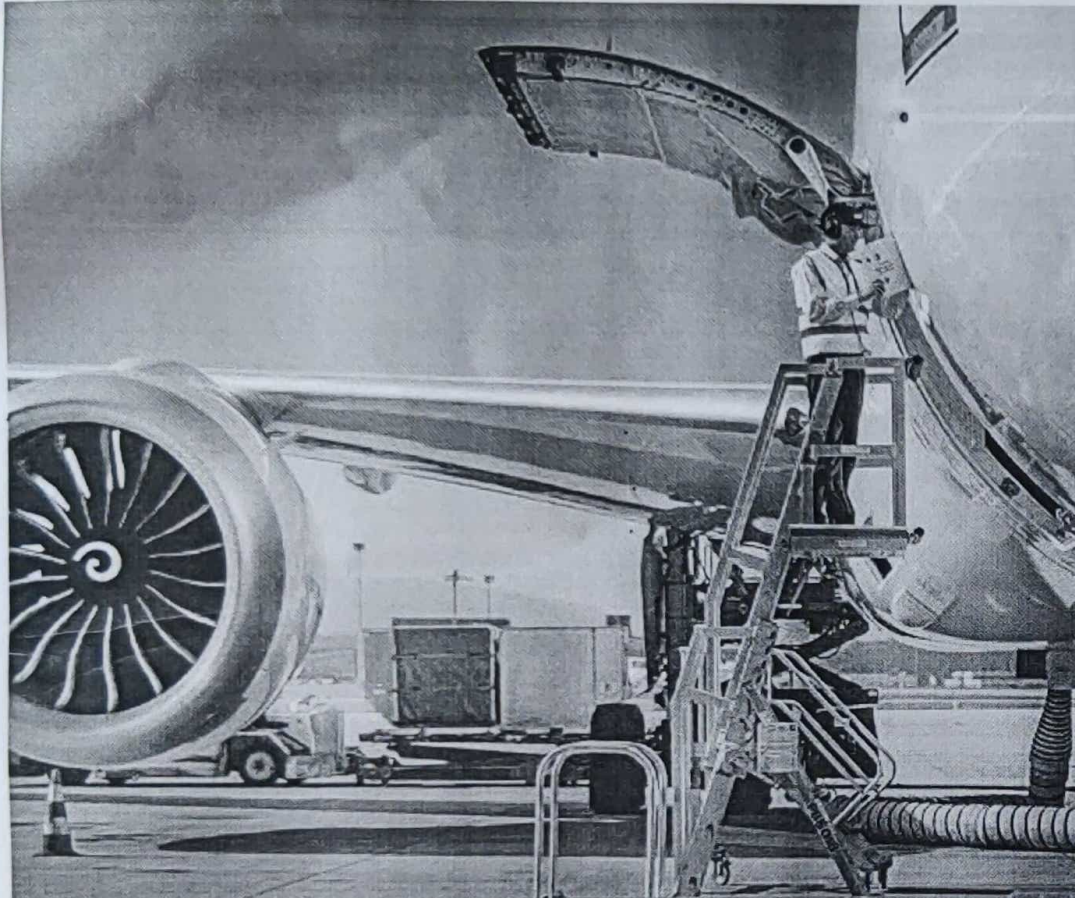
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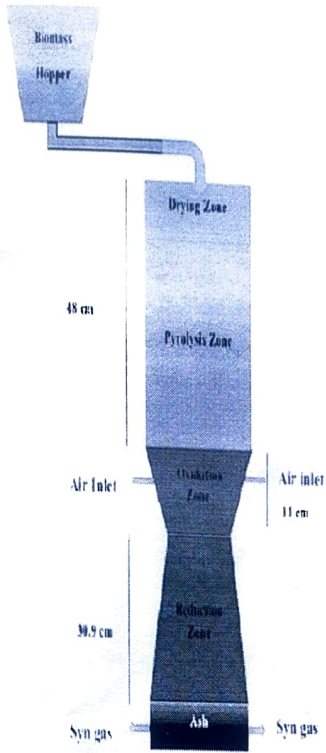
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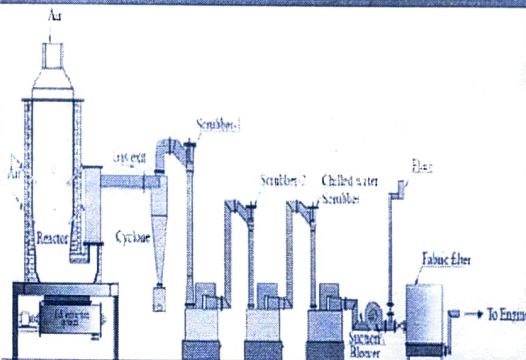


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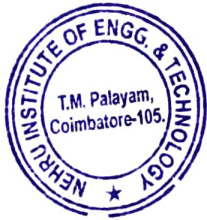
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