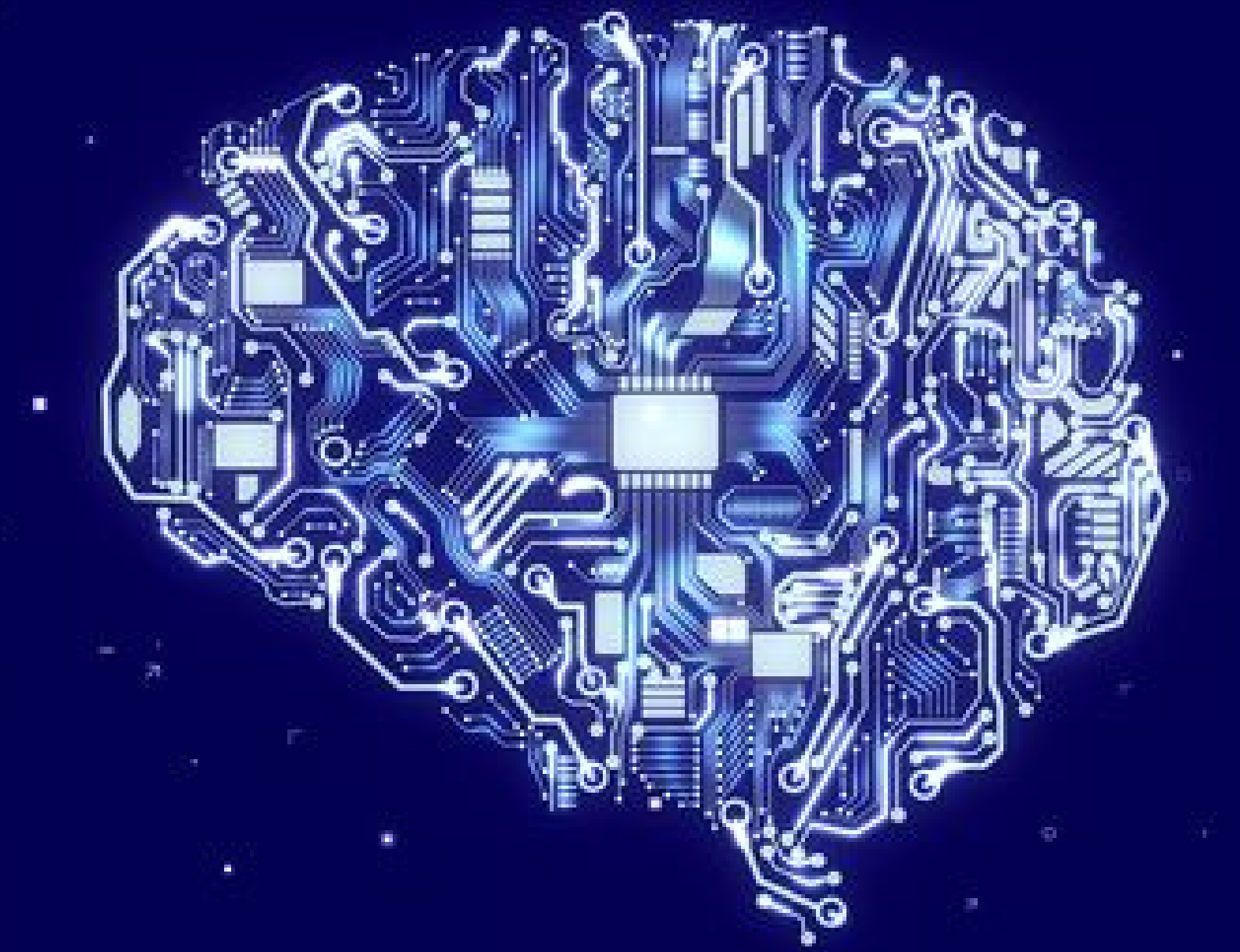
MINDRONICS

Dept. of ECE Magazine, Volume - 8, Issue 3
Jan. - Mar. 2025



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (A)

Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada
Accredited by NAAC with "A" Grade & NBA(ASE, Civil, CSE, IT, ECE, EEE, & ME) under Tier-I

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MINDTRONICS

Dept. of ECE Magazine Jan. - Mar., 2025 Vol. 8, Issue - 3

Focus & Scope:

A department magazine encourages the students to think, present and draft that help them in developing their talent, technical and writing skills. Also it helps them to improve their power of thinking and strengthen their imagination. Our department magazine MINDTRONICS consists of Articles on Emerging Developments in Electronics, Cartoons, Poetry, Drawings and Review Writings on Latest Happenings collected from department students.

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Send your articles to mail ID
mindtronics.lbrce@gmail.com

Foreword

Shri. L. R. N.K. Prasad Reddy,
Chairman.

It's wonderful to hear about the success and creativity of the Department of Electronics and Communication Engineering and their magazine, "Mindtronics." Creating a platform like this not only showcases the talents of students but also contributes to the overall growth and development of the department. Expressing appreciation for the efforts of the entire team, including the Faculty Coordinators, is a great way to acknowledge their hard work and dedication. It's commendable that the department has taken the initiative to nurture and celebrate the talents of its students.

The Department of Electronics and Communication Engineering (ECE) adopts the acronym "ELECTRONICS" to embody its commitment to perpetual learning, creativity, research, innovation, and societal impact. The magazine reflects the collaborative spirit of the ECE community, with the students' team praised for their hard work in curating a diverse and impactful edition. The Faculty Coordinators are acknowledged for their valuable guidance. "Mindtronics" is seen not just as a publication but as a catalyst for the continual improvement of students' overall skill sets in the field of electronics and communication engineering.

Shri. G. Srinivasa Reddy,
President, LBCT

Foreword

Dr. K. Appa Rao,
Principal

Electronics and Communication Engineering (ECE) involves researching, designing, developing, and testing electronic equipment used in several engineering systems. It gave me great satisfaction to know that the Department of Electronics and Communication Engineering has come up with its own magazine, "Mindtronics". The way they presented it was unique, very creative and hope it will serve as a motivational and technological source for the students to exhibit their inherent talents and improve their skills. I'd like to express my appreciation to the whole team members of Mindtronics including Faculty Coordinators who really made it possible.

The branch ELECTRONICS stands for "Ever Learning, Ever Creative Through Research Onsetting New Inventions Comforting Society". The Department of ECE's magazine, "TechConnect," recently revised as "Mindtronics," that has been a source where members of the department are invoked to share their ideas, talents which includes technical, general aspects, and I strongly believe it is a wonderful platform to showcase their creative skills. I appreciate the entire students' team of Mindtronics for their efforts and hard work that they put in to bring out this edition. I extend my sincere thanks to Faculty Coordinators for their fabulous guidance. I hope this magazine gets strengthened further in all aspects to improve the overall skillset of students.

Dr. G. Srinivasulu,
Profesor & Head, ECE

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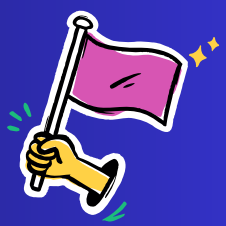


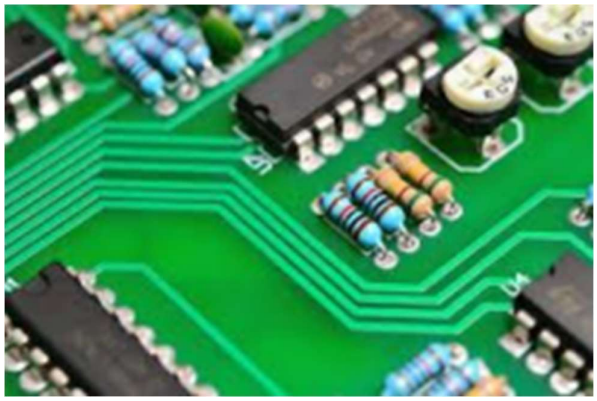
EMERGING DEVELOPMENTS

Plasma Electronics: The Future of High-Power and High-Speed Devices

Plasma electronics is an emerging field that leverages ionized gases (plasma) instead of traditional solid-state materials to create high-performance electronic devices. These systems can operate under extreme conditions, making them ideal for high-frequency communication, space exploration, fusion energy, and hypersonic applications.

What is Plasma Electronics?

Plasma electronics involves the use of charged particles (ions and electrons) in a plasma state to control electrical signals and power high-frequency devices. Unlike conventional semiconductors, which rely on solid materials (like silicon), plasma-based devices can withstand extreme temperatures, radiation, and high power loads.



How It Works:

➢ Plasma acts as a conductor, allowing the controlled flow of charged particles.

➢ Electric and magnetic fields manipulate the plasma to control signals and power transmission.

➢ Unlike traditional transistors, plasma-based components can operate at terahertz frequencies with minimal heat buildup.

Key Applications of Plasma Electronics

Aerospace & Hypersonic Vehicles

➢ Plasma antennas enable high-speed, interference-resistant communication for hypersonic aircraft and space vehicles.

➢ Plasma shields reduce drag and heat on hypersonic spacecraft, allowing better control during re-entry.

High-Frequency & Terahertz (THz) Communication

➢ Plasma devices operate at THz frequencies, far beyond the limits of silicon transistors.

➢ Enables next-gen 6G networks, military radar, and ultra-fast satellite communications.

Fusion Energy & Nuclear Applications

➢ Plasma electronics help control magnetic fields in fusion reactors (e.g., Tokamak reactors) for sustainable nuclear fusion energy.

➢ Used for monitoring plasma stability and particle flow in high-energy environments.

Radiation-Resistant Electronics for Space Exploration

➢ Unlike silicon chips, plasma-based electronics are immune to cosmic radiation, making them ideal for deep-space missions.

➢ Used in plasma thrusters, satellite propulsion, and space weather monitoring systems.

Advanced Radar & Military Defense

➢ Plasma-based stealth coatings can absorb radar waves, reducing aircraft and submarine detectability.

➢ High-power plasma radar systems improve real-time battlefield surveillance.

Advantages of Plasma Electronics

❖ Withstands Extreme Conditions – Functions at high temperatures and in high-radiation environments.

❖ Operates at Ultra-High Frequencies – Works beyond THz speeds, surpassing semiconductor limitations.

❖ High-Power Handling – Can handle intense voltages and power loads without overheating.

❖ Stealth & Security Benefits – Plasma antennas are invisible to traditional radar, ideal for defense applications.

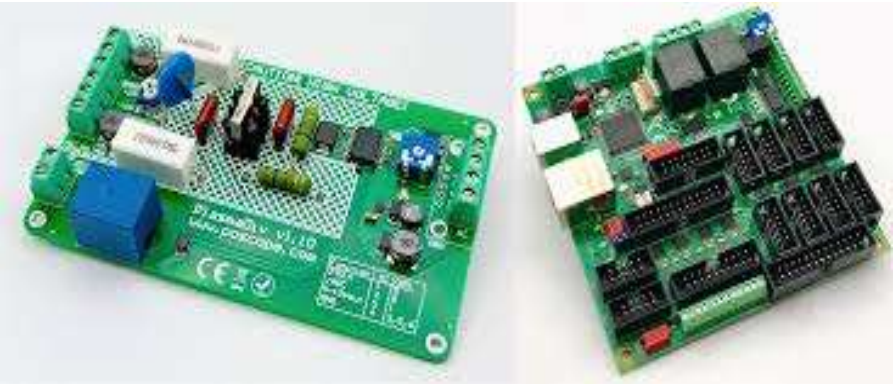
Challenges & Future Outlook

Challenges:

Miniaturization: Plasma devices are currently larger than traditional semiconductors.

Power Requirements: Requires high-energy input to maintain plasma states.

Manufacturing Complexity: Plasma circuits are more complex to integrate into commercial electronics.



Future Developments:

➢ Nano-Plasma Electronics: Scientists are exploring ways to create micro and nanoscale plasma devices for compact systems.

➢ Plasma Transistors: Research is underway to develop plasma-based computing devices that outperform silicon chips.

➢ Integration with AI & Quantum Computing: Plasma-based systems may enhance AI processing and quantum communications in extreme environments.

Plasma electronics is pushing the boundaries of high-power, high-frequency, and extreme-environment electronics. While challenges remain, the potential impact on aerospace, defense, energy, and next-gen computing is immense.

By
PULLURU SRIJA
22761A04H8

Screenless Display

Introduction to Screenless Displays with Their Types

Nowadays, advanced technologies are growing faster wherein each technology is renewed with implementation of new one. The current trending display technology most commonly used in gadgets such as tablets, smart phones, etc., is the touch-screen display, which will become outdated in the near future. Screenless display is the advanced display technology, which replaces the touch screen technology to resolve the problems and to make lives more comfortable. Therefore, this article is intended to give an idea of the screenless display, which transmits or displays the information without using a projector or the screen. By using this screenless display technology, we can display the images directly on the open space, human retina and also to the human brain.

What is Screenless Display?

Screenless display is an interactive projection technology developed to solve the problems related to the device miniaturization of the modern communication technologies. The lack of space on screen based displays provides an opportunity for the development of screenless displays. As the name indicates screenless display has no screen and it can be defined as a display used to transmit any data such as pictures or videos without the help of screens.

Types of Screenless Display

Screenless display technology is divided into three main categories:

- Visual Image Display
- Retinal Display
- Synaptic Interface

The first category, visual image is defined as the things that can be seen by the human eye such as holograms. The second category, retinal display – the name itself- indicates the display of image directly onto the retina. The third category , synaptic reference which means sending information directly to the human brain. Let us look on in detail about these three display types.

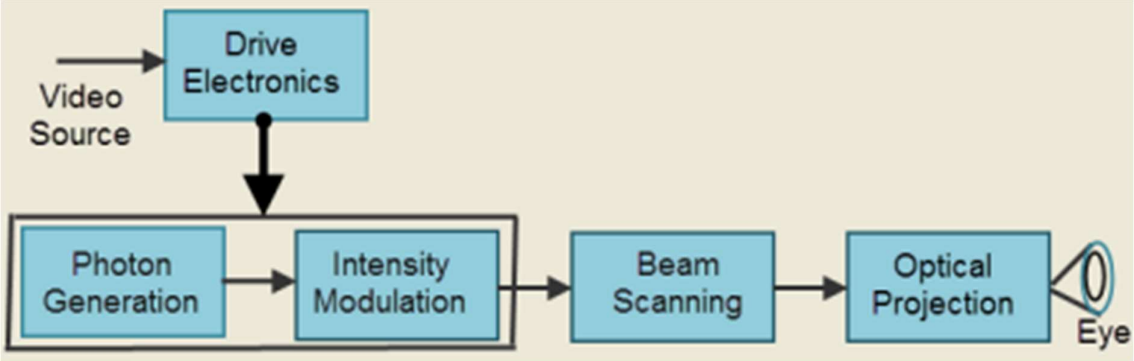
1. Visual Image Display

The visual image is a type of screenless display, which recognizes any type of image or thing with the help of the human eye.The following are few examples of the visual image display: holographic display, virtual reality goggles, heads up display, etc. The working principle of this display states that the light gets reflected by the intermediate object before reaching the retina or the eye. The intermediate object can be a hologram, Liquid Crystal Displays (LCD)s or even windows.

2. Retinal Display

The second category of advancement in display system, retinal display as the name itself indicates the

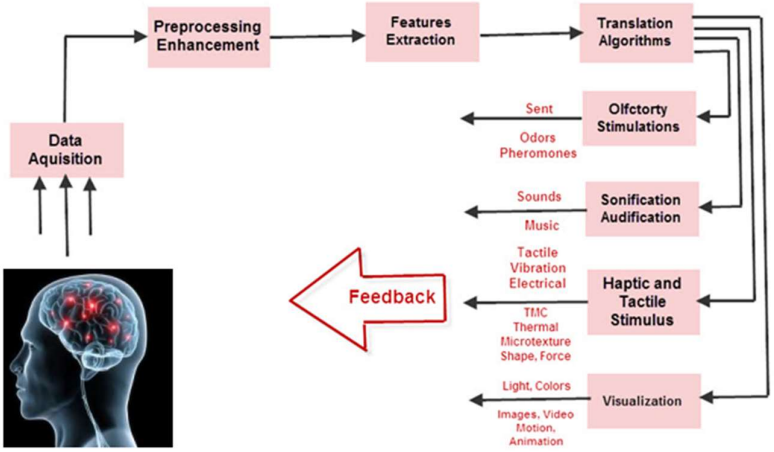
display of image directly onto the retina. Instead of using some intermediate object for light reflection to project the images, this display directly projects the image onto the retina.The user will sense that the display is moving freely in the space. Retinal display is commonly known as retinal scan display and retinal projector.This display allows short light emission, coherent light and narrow band color. Let us know about this display with the help of the following block diagram.



3. Synaptic Interface:

The third category, synaptic interface means sending information directly to the human brain without using any light. This technology is already tested on humans and most of the companies started using this technology for effective

communication, education, business and security system. This technology was successfully developed by sampling the video signals from horse crab eyes through their nerves, and the other video signals are sampled from the electronic cameras into the brains of creatures.



These are the three types of latest Screenless displays which replace the current use of touch screen technology to fill the lack of space in the screen-based electronic displays.

Challenges:-

1. Image Quality and Resolution
2. Power Consumption
3. Interactivity and User Experience
4. Environmental Factors

Future Directions:-

1. Retinal and Eye-Tracking Technology
2. Holographic Displays
3. Augmented Reality (AR) Integration
4. Advanced User Interface (UI) and Interaction
5. Wearable and Portable Screenless Devices
6. Smarter Environmental Adaptation
7. Integration with IoT and Smart Environments

Conclusion:-

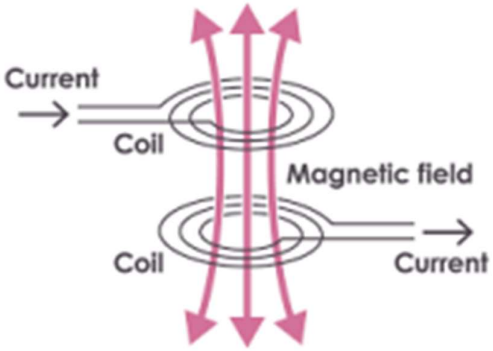
Screenless display technology is poised to reshape our digital interactions, offering new ways to access and experience information. However, several technical and practical challenges must be overcome to bring this technology into mainstream use. With advances in optics, miniaturization, power efficiency,

By
Kandula Prabhod Kumar
23761A04F8

Wireless Power Transfer (WPT)

Wireless Power Transfer (WPT) refers to the process of transmitting electrical energy from a power source to an electrical device without the use of physical connectors or wires. This technology uses various methods such as electromagnetic fields (inductive, capacitive coupling) or electromagnetic radiation (microwaves, lasers) to transfer energy over a distance.

WPT is commonly used for charging devices like smartphones, electric vehicles, and wearable electronics, providing a more convenient and efficient way to power devices without needing physical plugs or cables.



Challenges Before WPT:

• Tangled cords and limited mobility (for wired solutions).

• Battery life and recharging issues (for battery-powered devices).

• Efficiency and range limitations (for early inductive charging).

TYPES OF WPT:

Inductive Coupling: Uses magnetic fields to transfer power between coils; commonly used in wireless charging for devices like smartphones. Limited range and requires precise coil alignment for efficient power transfer.

Resonant Inductive Coupling: Utilizes resonating coils at the same frequency for efficient power transfer over longer distances. Offers better efficiency and range than standard inductive methods but requires precise tuning.

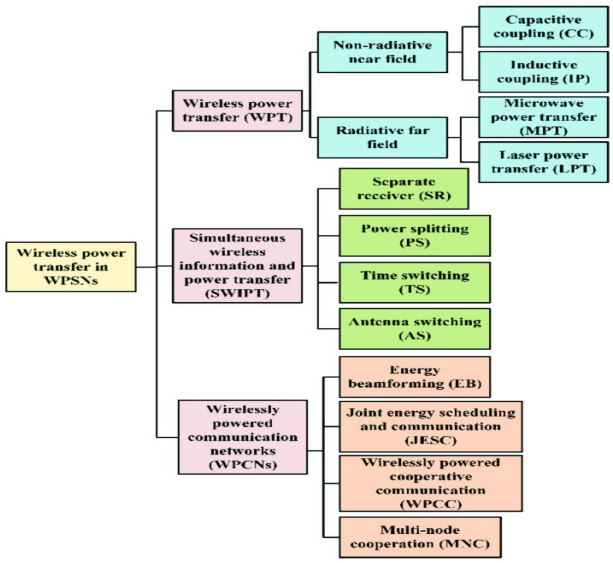
Capacitive Coupling: Transfers power via electric fields between capacitor plates; often used for small-scale devices like RFID tags. Limited range and efficiency, with no need for magnetic field compatibility.

Microwave Power Transfer (MPT): High-frequency microwaves are transmitted and converted into electricity by a rectenna. Suitable for long-range applications, but requires line-of-sight and can have safety concerns.

Laser Power Transfer: Laser beams are directed at photovoltaic cells, converting light to electricity for power transfer. High power density and long-distance capability, but dependent on line-of-sight and safety issues.

Magnetic Resonance: Uses tuned resonators to create a magnetic field for power transfer over moderate distances. More efficient than inductive coupling, but still requires precise tuning for optimal performance.

Ultrasound Power Transfer: Transfers power via sound waves, suitable for medical implants or small devices. Limited range and lower efficiency compared to other methods, but can work through solid objects.



Method	Principle	Applications	Advantages	Disadvantages
Inductive Coupling	Magnetic fields induce current in a secondary coil.	Wireless charging for smartphones, electric toothbrushes, and electric vehicles.	Simple design, widely used, safe for short-range transfer.	Limited range, requires precise coil alignment.
Resonant Inductive Coupling	Uses resonating coils at the same frequency for power transfer.	Mid-range wireless charging, EV charging systems.	More efficient, allows greater distance than inductive.	Complex tuning, limited range compared to other methods.
Capacitive Coupling	Electric fields between capacitor plates transfer energy.	Small electronics (e.g., RFID tags, low-power devices).	Useful where magnetic fields aren't ideal.	Limited range, low efficiency.
Microwave Power Transfer	High-frequency microwave radiation converted to DC via a rectenna.	Long-range transmission, space-based solar power.	Capable of long-range transmission.	Requires line-of-sight, potential safety concerns.
Laser Power Transfer	Laser beam directed at photovoltaic cell to convert light to power.	Spacecraft, remote locations, high-power applications.	High power density, long-distance transmission.	Requires line-of-sight, safety issues, conversion losses.
Magnetic Resonance	Tuning resonators to a specific frequency for power transfer.	EV charging, wireless power for medical implants.	Higher efficiency and range than inductive methods.	Limited efficiency, needs precise tuning.
Ultrasound Power Transfer	Uses sound waves to transmit energy.	Wireless power for medical implants, small devices.	Can transfer energy through solid objects.	Limited range, low power transfer efficiency.

Conclusion:

Wireless Power Transfer (WPT) is an innovative and transformative technology that holds the potential to revolutionize how we power and charge devices. By eliminating the need for physical cables and connectors, WPT offers unprecedented convenience, safety, and mobility, making it a highly desirable solution for a wide range of applications, from consumer electronics to electric vehicles and medical devices.

By
Kallam prakash reddy,
23761A04F7

REVIEW WRITINGS ON LATEST HAPPENINGS

Eco-Friendly Recycling of Wind Turbine Blades

Background & Need

Wind energy is one of the fastest-growing renewable energy sources worldwide. However, wind turbine blades—made from thermoset composites like fiberglass and epoxy resin—have a lifespan of about 20–25 years. Decommissioned blades are difficult to dispose of because:

- They are large, non-biodegradable, and chemically complex.
- Traditional disposal methods (e.g., landfilling or incineration) are unsustainable and polluting.

Globally, millions of blades are expected to be retired in the coming years, creating a massive waste problem.

The New Recycling Process

Washington State University (WSU) developed a non-chemical mechanical recycling process:

Steps Involved:

1. Mechanical Shredding:

○ Blades are ground into small flakes without the use of acids or solvents.

○ Avoids release of toxic fumes unlike traditional chemical recycling.

2. Thermomechanical Processing:

○ The flakes are compressed under heat and pressure to form new materials. ○ This process retains the strength of the original fiberglass-reinforced composites. 3. Re-manufacturing:

○ Recycled material is re-molded into new plastic composites.

○ These new materials are stronger and more durable than many conventional plastics.

Advantages

- Eco-Friendly: No harsh chemicals or emissions; supports green manufacturing.
- Cost-Efficient: Low processing costs compared to chemical methods.
- Circular Economy: Materials from old blades are reused, reducing raw material needs.
- Enhanced Materials: Final products have improved structural properties.

Applications

- Construction: Roofing tiles, panels, insulation boards.
- Automotive: Interior panels, bumpers, underbody shields.
- Furniture & Infrastructure: Composite benches, railings, outdoor furniture.
- Consumer Products: Durable containers, sports equipment, packaging.

Challenges

- Varying blade designs may require custom recycling methods.
- Scaling up the process for global deployment.
- Need for industry partnerships to integrate recycled materials.

Future Outlook

This method could become a global standard for turbine blade recycling. As turbine deployments increase, sustainable blade disposal will be crucial. Potential exists for similar recycling of boats, airplanes, and other composite-rich products

By

Sanepalli Bhargavi
22761A0412

Review of Peepul Agri Ventures LLP

Company Overview

Peepul Agri Ventures LLP, founded in October 2022 and based in Hyderabad, Telangana, is a rising star in the Indian agri-tech landscape. The company was founded by Sreeram Raavi, with a mission to make chilli farming sustainable through autonomous technologies and intelligent agronomic practices.

Their approach blends AI, robotics, and data-driven agriculture to empower farmers, increase yields, and reduce dependence on harmful agrochemicals—specifically in the chilli-growing sector, a major crop in India.

Innovation and Technology

Peepul Agri stands out for its deep-tech solutions tailored for Indian agriculture. Key innovations include:

- **AI-Powered Precision Spraying Systems**: Devices that can detect crop stress, pest infestations, or disease early and apply pesticide or nutrients only where needed.
- **Autonomous Robotics in Farming**: Machines that operate independently, reducing manual labor while improving efficiency.
- **Agronomic Intelligence Integration**: Smart analytics that interpret data from the field and suggest precise actions—such as nutrient supply or pest control timing.

These innovations are focused on reducing pesticide overuse, minimizing soil degradation, and boosting crop health, particularly in chilli farming.

Advantages

1. Sustainability-Oriented

Peepul Agri directly addresses issues of soil depletion, pesticide runoff, and food safety by promoting sustainable practices.

2. Automation & Labor Efficiency

With the adoption of robotics and AI, the company helps reduce dependency on manual labor and improves field-level precision.

3. Data-Driven Farming

The use of agronomic data and AI improves decision-making and ensures that crops get exactly what they need—no more, no less.

4. Reduced Input Costs

By targeting chemical and nutrient use, farmers can save significantly on inputs while maintaining or improving yield.

5. Crop-Specific Focus

Focusing on chilli crops, which are widely cultivated in Andhra Pradesh and Telangana, allows them to tailor technologies effectively for real-world impact.

Applications

● Chilli Farms: Precision tools help reduce chemical input while improving yield quality and quantity.

● Agrochemical Companies: Collaboration opportunities for smarter, more efficient input delivery systems.

● Government Agri-Schemes: The tech aligns well with India's goal of promoting climate-resilient farming and digital agriculture.

● Export Quality Produce: Safer and cleaner food production helps meet international standards, boosting India's export potential.

Challenges

While promising, Peepul Agri faces challenges common to early-stage agri-tech startups:

● Scalability: Adapting the technology for other crops and regions beyond chilli.

● Farmer Awareness: Convincing traditional farmers to adopt new tech can be a slow and challenging process.

● Affordability: Keeping solutions affordable for small and marginal farmers is essential.

● Integration with Government Schemes: Navigating policy frameworks and subsidies to support farmers with the tech.

Future Outlook

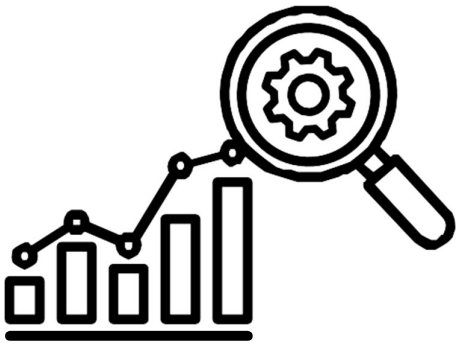
Peepul Agri is poised to become a leader in sustainable agriculture technology in India, especially in crop-specific automation. With the growing focus on smart farming, climate-resilient agriculture, and food safety, their technology could be adopted nationwide and adapted to other key crops like cotton, tomatoes, or sugarcane.

Potential Future Developments:

● Expansion into soil health monitoring and carbon farming.

● Partnerships with agri universities and government agencies.

● Development of modular robotics for multiple farming applications.

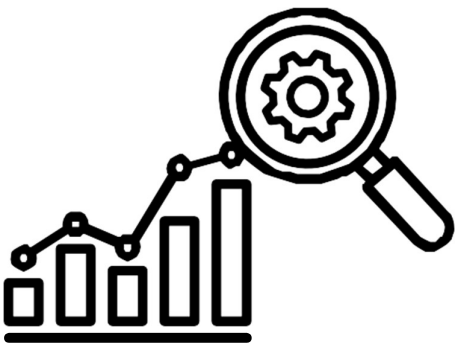


Final Verdict

Peepul Agri Ventures LLP represents the new wave of Indian agri-tech—one that is smart, sustainable, and farmer-focused. By combining cutting-edge technology with grassroots agricultural needs, it is not only solving present-day problems but also shaping the future of farming in India.

Ideal For: Progressive farmers, agri-tech investors, climate-conscious policymakers.

By
Ch. Khyathi Sree
(22761A04E3)



Siemens AG – Driving the Digital and Sustainable Future

Company Overview

Siemens AG, founded in 1847 by Werner von Siemens, is a German multinational conglomerate headquartered in Berlin and Munich. It is one of the world's largest industrial manufacturing companies, deeply embedded in sectors like automation, energy, transport, healthcare, and digital infrastructure.

For over 175 years, Siemens has stood as a pillar of innovation and industrial excellence, continually adapting to global changes and technological shifts.

<freshers.jobs/>

SIEMENS

Core Business Domains

Siemens operates through several major divisions:

1. **Siemens Digital Industries**
   - ○ Focuses on automation, software, and AI for industries.
   - ○ Integrates the real and digital worlds to make industries smarter.
2. **Siemens Smart Infrastructure**
   - ○ Delivers intelligent building systems, smart grids, and energy-efficient infrastructure solutions.
3. **Siemens Mobility**
   - ○ Provides rail automation, electric trains, and transportation systems for global urban and intercity

mobility.

4. **Siemens Healthineers**

○ Specializes in medical imaging, diagnostics, and laboratory equipment, especially relevant post-COVID-19.

5. **Siemens Energy (formerly part of Siemens AG)**

○ Handles power generation, transmission, and renewable energy technologies. ○ It became a separate entity in 2020.

Key Innovations

Siemens Industrial Copilot (AI Integration)

● A generative AI solution that enables operators to control and program machines using natural language.

● Enhances automation and reduces the need for specialized coding skills.

Digital Twin & Simulation

● Siemens is a leader in digital twin technology, allowing for real-time monitoring and virtual testing of products and systems.

Grid Edge Solutions

● Siemens Smart Infrastructure develops grid edge tech for decentralized energy systems, enabling cities to become climate-resilient.

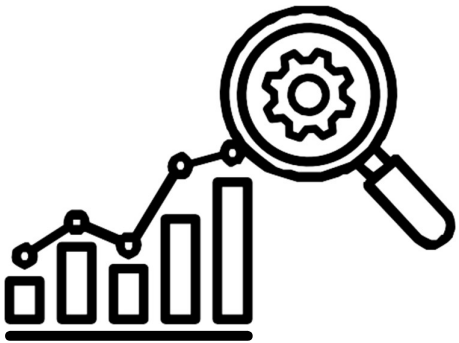
MindSphere (IoT Platform)

● Siemens' cloud-based IoT platform connects industrial devices and analyzes data to improve operational efficiency.

Advantages of Siemens' Solutions

Feature Advantage

- Automation Increased efficiency, reduced downtime, and minimal human error
- AI and Digital Twin Predictive maintenance and optimized product development
- Healthcare Tech Enhances diagnostics, especially in oncology and cardiology Global Reach Reliable partnerships and services in over 190 countries



Applications Across Sectors

1. **Industry & Manufacturing**

○ Smart factories using PLCs, SCADA, AI, and robotics.

○ Predictive maintenance and condition monitoring.

2. **Energy & Utilities**

○ High-voltage transmission systems.

○ Renewable energy integration (solar, wind, hydrogen).

3. **Healthcare**

○ MRI, CT, X-Ray machines.

○ AI-assisted diagnostic software.

4. **Mobility**

○ Rail signaling, metro automation, high-speed trains.

5. **Smart Cities**

○ Intelligent building automation.

○ Integrated lighting, HVAC, security, and energy management.

Siemens in India

● Established presence since 1867 through the Indo-European telegraph line.

● Major contributor to India's modernization in power grids, metros, smart cities, and industrial automation.

● Siemens India also runs several skill development programs for engineering students and professionals.

Recent Developments

● March 2025: Siemens Energy sold 90% of its wind turbine business in India and Sri Lanka to an investor group led by TPG's climate arm.

Goal: To streamline focus on core areas like hydrogen and grid technologies.

● Siemens has also announced expansions in digital industries and is investing heavily in AI-powered robotics, furthering its edge in Industry 4.0.

Challenges

Despite its strengths, Siemens faces:

● Global competition from GE, ABB, Schneider Electric, and Honeywell.

● Economic fluctuations affecting infrastructure and energy markets.

● Cybersecurity risks due to increased digitization and IoT deployments.

● The need to balance legacy systems with next-gen innovation, especially in developing nations.

Future Outlook

With its strong R&D base, Siemens is expected to:

● Lead the charge in green hydrogen technology.

● Dominate the smart grid and smart city ecosystem globally.

● Expand AI and machine learning solutions across industrial operations.

● Play a key role in decarbonizing transport, particularly with electric rail and autonomous metro systems.

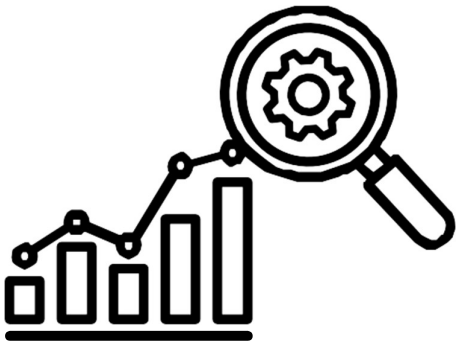
Final Verdict

Siemens AG remains a cornerstone of global industrial innovation. Its deep legacy, diverse portfolio, and constant drive for technological advancement make it a leader in digital transformation and sustainable development.

Overall Rating:

Recommended For: Governments, industrial partners, smart city planners, energy companies, healthcare institutions, and automation sectors.

By



M. Dileep Vamsi
22761A04G4

POETRIES

The Smile

There is a smile of love,
And there is a smile of deceit,
And there is a smile of smiles
In which these two smiles meet.
And there is a frown of hate,
And there is a frown of disdain,
And there is a frown of frowns
Which you strive to forget in vain,
For it sticks in the heart's deep core
And it sticks in the deep backbone
And no smile that ever was smil'd,
But only one smile alone,
That betwixt the cradle and grave
It only once smil'd can be;
And, when it once is smil'd,
There's an end to all misery.

By
K.Bhavitha
22761A0425

Start Where You Stand

The past won't help you in beginning new,
If you have left it all behind at last
Why, that's enough, you're done with it, you're through;
This is another chapter in the book,
This is another race that you have planned,
Don't give the vanished days a backward look,
Start where you stand.
The world won't care about your old defeats
If you can start anew and win success;
The future is your time, and time is fleet
And there is much of work and strain and stress;
Forget the buried woes and dead despairs, Here is a brand-new trial right at hand,
The future is for him who does and dares,
Start where you stand.

By
Y KANAKA DURGA
22761A0466

The Forgotten Song

A melody drifts on the evening air,
Soft as a sigh, light as a prayer.
No lips recall the tune it weaves,
Yet still, it hums through trembling leaves.

It lingers where the old roads fade,
Where time is dust, where dreams are laid.
A song once sung in halls of gold,
Now whispers where the night grows cold.

Who first sang it? None can say,
Yet echoes call from far away.
A voice that lingers, sweet but long—
A ghost, a wish, a forgotten song.

By
PULLURU SRIJA
22761A04H8

Never Give Up

no matter what is going on

Never give up

Develop the heart

Too much energy in your country

is spent developing the mind

instead of the heart

Develop the heart

Be compassionate

not just to your friends

but to everyone

Be compassionate

Work for peace

in your heart and in the world

Work for peace

and I say again

Never give up

No matter what is happening

No matter what is going on around you

Never give up

By
D DHARANI
22761A0416

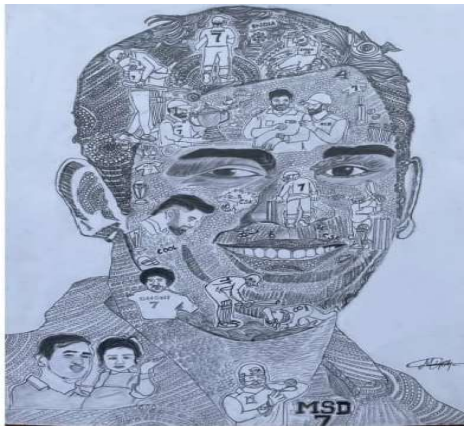
Drawings

Serenity

By

PULLURU SRIJA,22761A04H8

Dhoni



By

Sd. Asif Basha, 23761A04I8,

Beauty

By

Abburi Sowjanya, 22761A0401

Melody

By

PULLURU SRIJA,22761A04H8

Little Krishna

By
22761A04H3
M.Deepika

Virat Kohli

By
Teleprolu Srinivas Naidu
23761A04J0

PUZZLE

PUZZLE-1

⊕⊕ X ○ + ↑ = 60

↑ + ↑ + ↑ = 90

○ + ↑ + ○ = 93

↑ / ⊕ + ○ X ○ = ?

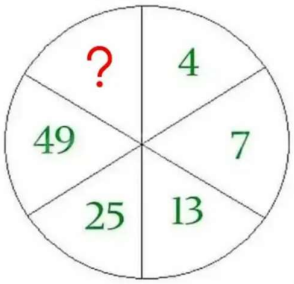
By

P. Srija

22761A04H8

PUZZLE-2

Find the Missing Number



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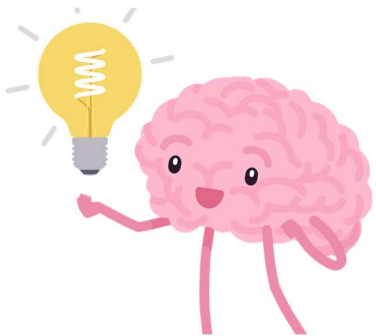


PUZZLE-3

	41	1	16	28	27	32
16	6	1	8	3	2	8
31	8	4	9	5	9	9
26	3	8	2	9	8	7
18	9	9	4	5	4	8
35	9	1	8	9	8	1
19	9	9	2	9	3	8

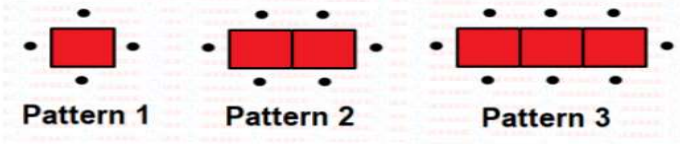
By

M. Deepika

22761A04H1

PUZZLE-4

Based on the pattern above, how many dots would there be for pattern 8?



OPTIONS

16

18

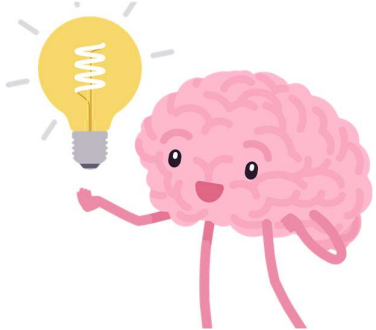
20

22

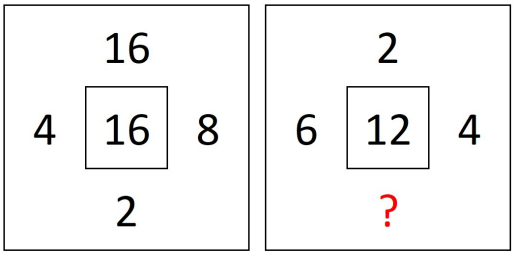
By

P. Srija

22761A04H8

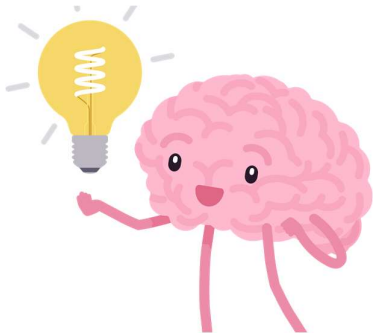


PUZZLE-5



A. 12
B. 5
C. 25
D. 10
E. 24

By
P. Lasya Priya
22761A04G6



CARTOONS

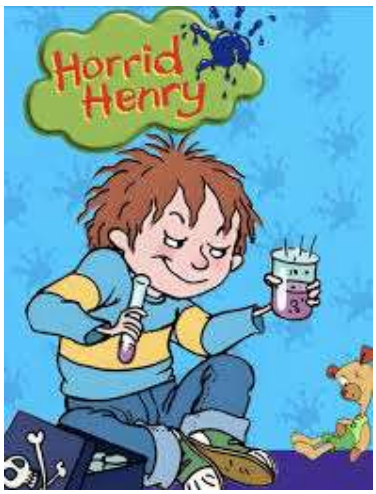
CARTOON-1

By

P. Srija

22761A04H8

CARTOON-2



By

V. Vandhik

22761A04J2

CARTOON-3

By
M. Deepika
22761A04H2

CARTOON-4

By
S. Priyanka
22761A04I4

STORIES

The Poor Man's Wealth

Ramchand and Premchand were neighbors. Ramchand was a poor farmer. Premchand was a landlord. Ramchand used to be very relaxed and happy. He never bothered to close the doors and windows of his house at night. He had deep sound sleeps. Although he had no money he was peaceful.

Premchand used to be very tense always. He was very keen to close the doors and windows of his house at night. He could not sleep well. He was always bothered that someone might break open his safes and steal away his money. He envied the peaceful Ramchand.

One day, Premchand call Ramchand and gave him a boxful of cash saying, "Look my dear friend. I am blessed with plenty of wealth. I find you in poverty. So, take this cash and live in prosperity."

Ramchand was overwhelmingly happy. He was joyful throughout the day. Night came. Ramchand went to bed as usual. But, to-day, he could not sleep. He went and closed the doors and windows. He still could not sleep. He began to keep on looking at the box of cash. The whole night he was disturbed.

As soon as day broke, Ramchand took the box of cash to Premchand. He gave away the box to Premchand saying, "Dear Friend, I am poor. But, your money took away peace from me. Please bear with me and take back your money."

Moral: Money can not get everything. Learn to be satisfied with what you have and you will always be happy.

By

P. Ramya sri (22761A0442)

Lesson Learned in Life

One day, the father of a very wealthy family took his son on a trip to the country with the express purpose of showing him how poor people live. They spent a couple of days and nights on the farm of what would be considered a very poor family.

On their return from their trip, the father asked his son, "How was the trip?"

"It was great, Dad."

"Did you see how poor people live?" the father asked.

"Oh yeah," said the son.

"So, tell me, what did you learn from the trip?" asked the father.

The son answered: "I saw that we have one dog and they had four. We have a pool that reaches to the middle of our garden and they have a creek that has no end. We have imported lanterns in our garden and they have the stars at night. Our patio reaches to the front yard and they have the whole horizon.

"We have a small piece of land to live on and they have fields that go beyond our sight.

"We have servants who serve us, but they serve others. We buy our food, but they grow theirs.

"We have walls around our property to protect us, they have friends to protect them."

The boy's father was speechless.

Then his son added, "Thanks Dad for showing me how poor we are."

Moral: Love, Unity, Care, Satisfaction is richer than any comfort money gives.

By

V. Jagadeesh babu

(22761A0463)

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