

THE PROBLEM OF INTERFERENCE. WAYS OF PREVENTING AND OVERCOMING IT.

**Norkulova Iroda Bahrom qizi**

4 rd year students at Djizzakh branch of The National University of Uzbekistan named after Mirzo Ulugbek

**Supervisor: Abduraxmonova Zilola Yoqubjon qizi**

Assistant teacher in the department Foreign Languages a Djizzakh branch of The

National University of Uzbekistan named after Mirzo Ulugbek

**ANNOTATION**

*Interference, a common problem in various domains, can hinder the smooth and effective functioning of systems, processes, and communication channels. Whether it is technological interference disrupting wireless signals or interference among individuals causing conflicts, addressing this issue is crucial for maintaining productivity and ensuring seamless operations. This article will delve into the problem of interference and explore effective ways to prevent and overcome it.*

**Key words:** Interference, signals, messages, electromagnetic and radio, Preventing Interference, Preventing Interference, Physical Separation, Regular Maintenance and Updates, Implementing Interference Detection, Monitoring Systems, telecommunications, radio broadcasting, wireless networks.

**Understanding the Problem of Interference:** Interference can occur in several forms, including electromagnetic interference, radio frequency interference, and human interference, among others. It disrupts the intended signals, messages, or processes and results in inefficiencies, errors, and even conflicts between parties involved. Recognizing and understanding the various types and origins of interference is vital in finding appropriate solutions.

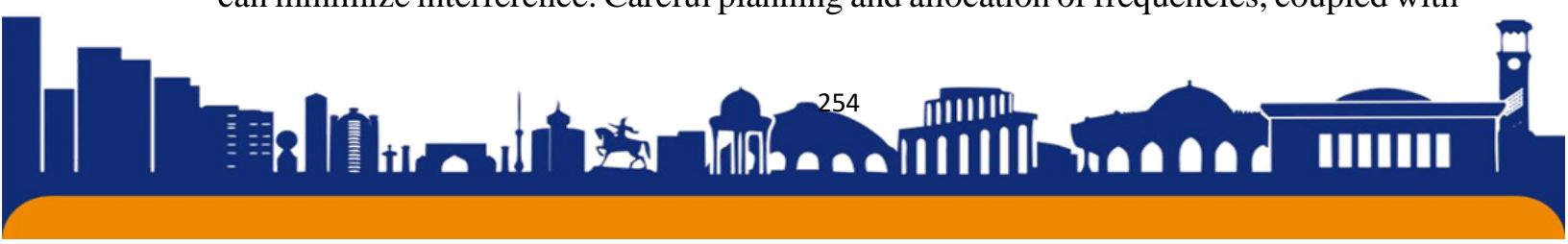
**Preventing Interference:**

1. Implementing Proper Shielding and Grounding Measures:

*In the realm of technology, electromagnetic and radio frequency interference can be mitigated by employing adequate shielding and grounding techniques. Shielding helps block external signals, while grounding diverts electrical interference away from sensitive equipment or communication channels.*

2. Selecting Appropriate Frequencies and Channels:

In wireless communication systems, selecting optimal frequencies and channels can minimize interference. Careful planning and allocation of frequencies, coupled with



advanced technologies like frequency hopping, can significantly reduce the likelihood of interference.

### 3. Ensuring Physical Separation or Isolation:

Physical interference can be avoided by strategically separating or isolating devices or processes that could potentially interfere with one another. By maintaining distance or implementing physical barriers, organizations can eliminate or minimize interference caused by various sources.

### *Overcoming Interference:*

#### 1. Identifying and Analyzing Interference Sources:

The first step to overcoming interference is to identify its source. Analyzing the environment, existing systems, and processes can help pinpoint the origins of interference. By understanding the contributing factors, tailored solutions can be developed.

#### 2. Implementing Interference Detection and Monitoring Systems:

Employing interference detection and monitoring systems can aid in identifying and tracking interference occurrences. Systems equipped with algorithms to analyze patterns and signals can isolate sources, helping organizations react promptly to mitigate their impacts.

#### 3. Adopting Communication and Conflict Resolution Strategies:

Human interference, such as conflicts and disagreements, often arise due to misunderstandings or differences in objectives. By promoting open and transparent communication channels and implementing conflict resolution strategies, organizations and individuals can work towards resolving issues constructively.

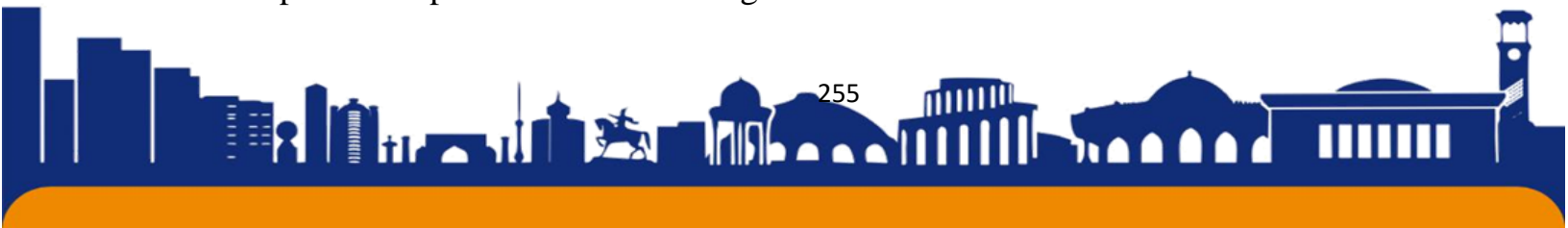
#### 4. Regular Maintenance and Updates:

In the case of technological interference, regular maintenance and updates are crucial. Hardware and software upgrades can address any vulnerabilities that might lead to interference. Additionally, keeping equipment well-maintained ensures optimal performance and reduces the risk of potential disruptions.

### *SOME EXAMPLES:*

❖ In telecommunications, interference can occur when multiple devices are transmitting signals on the same frequency, leading to a degradation in signal quality or loss of communication altogether.

❖ In radio broadcasting, interference can occur when a strong signal from one station overlaps with a weaker signal from another station, causing distortion or complete disruption of the weaker signal.



- ❖ In audio systems, interference can occur when electrical noise from nearby electronic devices or power sources is picked up by audio cables, resulting in a buzzing or humming sound.
- ❖ In wireless networks, interference can occur when multiple routers or access points are operating on the same channel, leading to slower internet speeds or dropped connections.
- ❖ In medical devices, interference can occur when electromagnetic fields from other electronic devices interfere with the proper functioning of pacemakers or other implanted devices.
- ❖ In automotive systems, interference can occur when electrical noise from the engine or other components affects the performance of electronic systems such as the radio, GPS, or sensors.
- ❖ In scientific experiments, interference can occur when external factors or variables affect the outcome of the experiment, leading to inaccurate or unreliable results.

### Conclusion

Interference poses challenges in various aspects of our lives, from technology to interpersonal relationships. By implementing preventive measures such as shielding and selecting appropriate frequencies, coupled with prompt identification and resolution strategies, organizations can mitigate, prevent, and ultimately overcome interference. Addressing this issue effectively enables smoother operations, enhanced productivity, and improved relationships between individuals and systems.

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