

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8" />
```

```
  <meta name="viewport"
```

```
content="width=device-width, initial-  
scale=1.0" />
```

```
  <title>Telecommunication Systems</title>
```

```
  <link href="https://fonts.googleapis.com/  
css2?
```

```
family=Inter:wght@400;600&display=swap"  
rel="stylesheet">
```

```
  <style>
```

```
    body {
```

```
      font-family: 'Inter', sans-serif;
```

```
      background-color: #f9f9f9;
```

```
      margin: 0;
```

```
      padding: 0;
```

```
      color: #333;
```

```
    }
```

```
header {  
  background-color: #ffffff;  
  padding: 20px 40px;  
  box-shadow: 0 2px 4px rgba(0, 0, 0,  
0.05);  
}
```

```
header h1 {  
  margin: 0;  
  font-size: 28px;  
  color: #1a73e8;  
}
```

```
section {  
  padding: 40px;  
}
```

```
h2 {  
  color: #1a73e8;  
}
```

```
p {  
  line-height: 1.6;  
}
```

```
.image-container {  
  display: flex;  
  flex-wrap: wrap;  
  gap: 20px;  
  margin-top: 20px;  
}
```

```
.image-container img {  
  max-width: 100%;  
  border-radius: 12px;  
  box-shadow: 0 4px 12px rgba(0, 0, 0,  
0.08);  
  width: 300px;  
}
```

```
footer {
```

```
text-align: center;
padding: 20px;
font-size: 14px;
background-color: #f1f1f1;
margin-top: 40px;
}
</style>
</head>

<body>
  <header>
    <h1>Telecommunication: Signals,
Systems & Network Models</h1>
  </header>

  <section>
    <h2>Introduction to
Telecommunication</h2>
    <p>
      Telecommunication is the transmission
of information over distances through
```

electronic means. It is the foundation of our connected world, enabling everything from voice calls to global internet access.

</p>

<div class="image-container">

</div>

</section>

<section>

<h2>Signals and Systems</h2>

<p>

Signals are time-varying quantities that

carry information. Systems process these signals to extract or modify the information. In telecommunication, understanding the behavior of signals (analog and digital) and systems (linear, time-invariant, etc.) is crucial.

Network Models

Network models describe how data moves across a network. Key models include:

- OSI Model:** A seven-layer model defining network functions.

- TCP/IP Model:**

The basis of the internet architecture.

- Client-Server Model:** Centralized communication paradigm.

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