API Test Report Intelbras

Network Technician Support Analyst

Zé

May, 02, 2023

Business Networks - Special Projects

Summary

1. Objective

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1.1. Objective1

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1.2. Objective

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2. Applied Tests

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Figura 1: Image Created by The Author

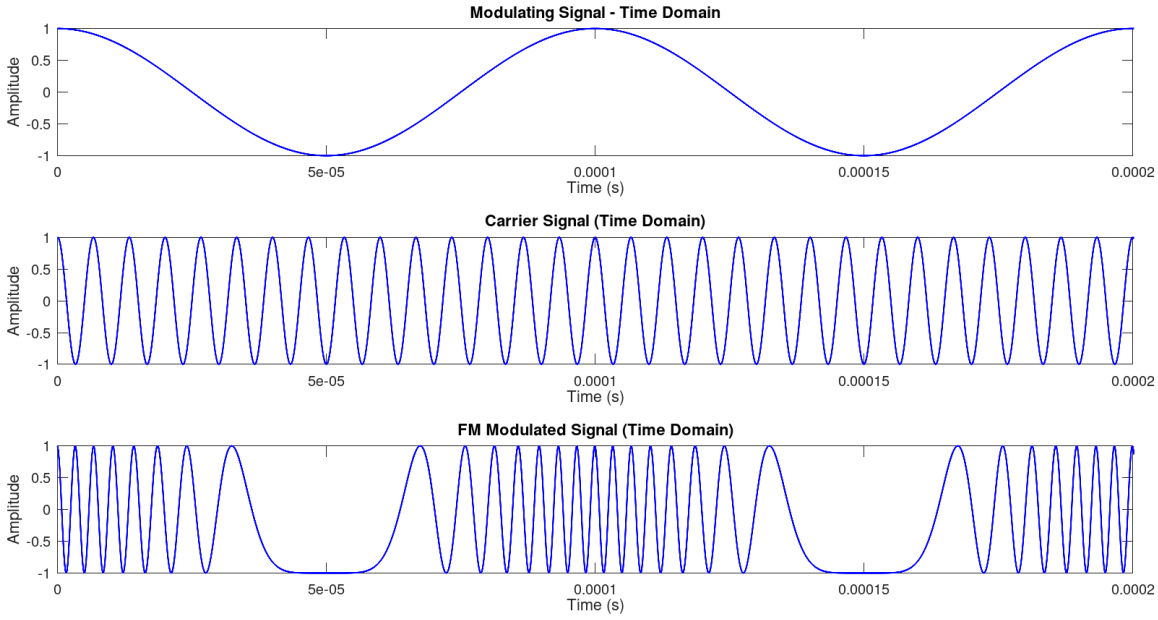

Image Description

Code block with syntax highlighting:

```
close all; clear all; clc;

% Defining the font size for the plots.
```

```
set(0, 'DefaultAxesFontSize', 20);

% Defining the signals amplitude.
A_modulating = 1;
A_carrier = 1;

% Defining the signals frequency
f_modulating = 10000;
f_carrier = 150000;

% modulator sensibility for frequency variation (Hz/volts)
k_f = 150000;

% Delta variable, correponding to max frequency variation.
d_f = k_f*A_modulating;

% Beta variable, correspondig to percentage of frequency variation about the frequency of the modulating.
b = d_f/f_modulating;

% Defining the period and frequency of sampling:
fs = 50*f_carrier;
Ts = 1/fs;
T = 1/f_modulating;

% Defining the sinal period.
t_inicial = 0;
t_final = 2;

% "t" vector, correspondig to the time period of analysis, on time domain.
t = [t_inicial:Ts:t_final];

% Defining carrier and modulating signals (for plot purpuses).
carrier_signal = A_carrier * cos(2*pi*f_carrier*t);
modulating_singal = A_modulating *cos(2*pi*f_modulating*t);

% Creating the FM modulated signal:
phase_argument = 2*pi*k_f*cumsum(modulating_singal)*Ts;
modulated_signal = A_carrier * cos(2*pi*f_carrier*t + phase_argument);
```

2.1. Test 1

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2.2. Test 2

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3. Results

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3.1. Result 1

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3.2. Result 2

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3.2.1. Description 1 of Result 2

3.2.2. Description 1 of Result 2

4. Conclusion

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5. References

For this article, the folloaswing references were used:

- Nome do link
- Nome do link
- Nome do link
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