

# *The Modulation Domain, a new approach*

- The spectrum analyzer shows you amplitude vs. frequency: the Frequency Domain.
- The oscilloscope shows you amplitude (voltage) vs. time: the Time Domain.
- And now, the modulation domain analyzer shows you frequency or time interval measurements vs. time: the Modulation Domain.

Modulation Domain analysis does for frequency what an oscilloscope does for voltage. The oscilloscope adds the time dimension to voltmeter readings, giving you a picture of the voltage variations as a function of time. The HP 53310A Modulation Domain Analyzer adds the time dimension to frequency counter results. You can view frequency variations directly.

For timing measurements, the Modulation Domain's view of time interval vs. time allows you to both see and quantify timing jitter directly — going a step beyond the Time Domain's qualitative view.

The HP 53310A makes it easy to investigate your signals in the Modulation Domain. And this guide makes it easy to get started.