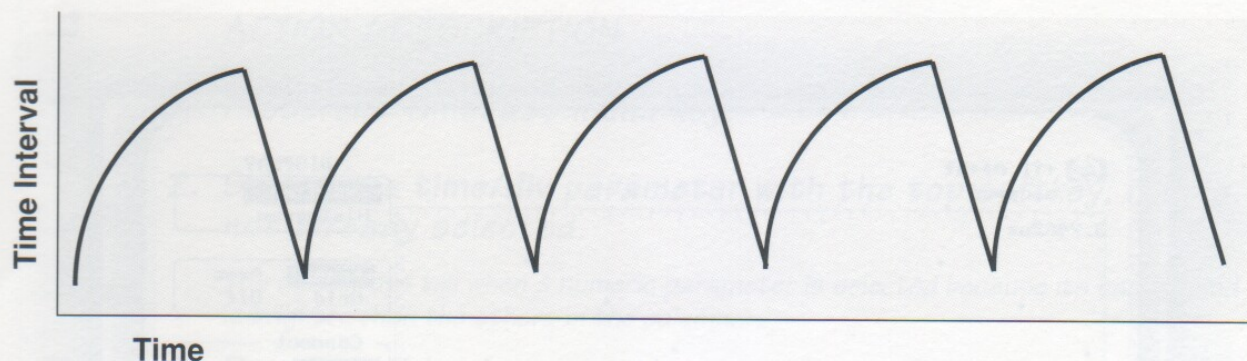


PULSE WIDTH MODULATION



Background

Pulse width modulation is used in encoding schemes for such products as compact disc players and mass storage devices. Pulse width modulation is also used in motor speed control circuits, switching power supplies, and automotive anti-lock brake systems. In order to characterize this form of modulation, it is important to know the width of each pulse and the timing relationship between pulses. The Analyzer makes it possible to characterize individual distributions of pulse width modulation data.

Pulse Width Modulation Start-up

1. Set the Signal Source to **On** and select **Pulse Width Modulation**.
2. Press the **Preset** key.
3. Select the **Time Int A→B** function using the top softkey.
4. Set the inputs to **Common** using the softkey second from the top.
5. Set the slopes to **rising on A** and **falling on B** using the next softkey.
6. Press the **Autoscale** key.

Turn the page to see how to analyze this signal.